JVC

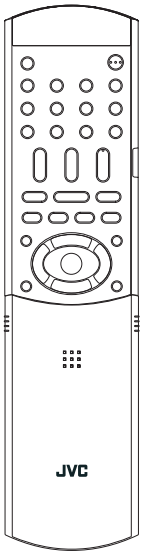
SERVICE MANUAL

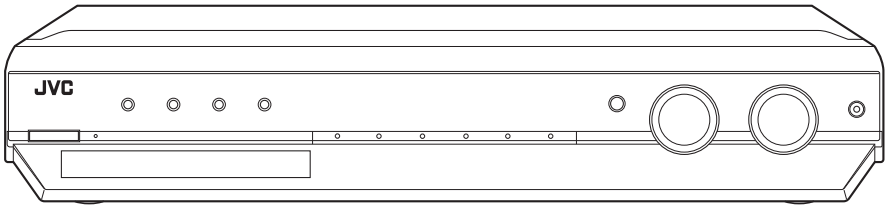
HOME CINEMA CONTROL CENTER

RX-ES1SL

Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe





DOLBY DIGITAL PRO LOGIC II

DIGITAL dts SURROUND

R·D·S

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No.22070
2003/7

SPECIFICATION

Amplifier	Output Power	At Stereo operation	Front ch		100 W per channel, min. RMS, both channels driven into 8 Ω at 1kHz with no more than 10% total harmonic distortion. (IEC268-3)
			At Surround operation	Front ch	100 W per channel, min. RMS, driven into 8 Ω at 1 kHz with no more than 0.8% total harmonic distortion.
				Center ch	100 W, min. RMS, driven into 8 Ω at 1 kHz, with no more than 0.8% total harmonic distortion.
				Surround ch	100 W per channel, min. RMS, driven into 8 Ω at 1 kHz, with no more than 0.8% total harmonic distortion.
Audio	Audio Input Sensitivity/ Impedance (1 kHz)	DVD IN, DVD MULTI IN, STB IN, VCR IN, TV IN			260 mV/47 kΩ
	Audio Input (DIGITAL IN)*	Coaxial	DIGITAL 1 (DVD)		0.5 V(p-p)/75 Ω
		Optical	DIGITAL 2/3 (STB/TV)		-21 dBm to -15 dBm (660 nm ±30 nm)
	* Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency -32 kHz, 44.1 kHz, 48 kHz).				
	Audio Output Level	VCR OUT, TV OUT			250 mV
	Signal-to-Noise Ratio ('66 IHF/DIN)				
	DVD MULTI IN				87 dB/62 dB
	Frequency Response (8 Ω)				
	DVD IN, STB IN, VCR IN, TV IN				
	Tone Control				
	Bass (100 Hz)				±10 dB ±2 dB
	Treble (10kHz)				±10 dB ±2 dB
	Bass boost				+4 dB ±1 dB at 100 Hz
Video	Video Input Sensitivity/ Impedance (1 kHz)	Composite video	DVD IN, STB IN, VCR IN		1 V(p-p)/75 Ω
	S-video	DVD IN, STB IN, VCR IN	(Y: luminance)		1 V(p-p)/75 Ω
			(C: chrominance)		0.286 V(p-p)/75 Ω
	RGB	DVD IN, STB IN, VCR IN	0.7 V(p-p)/75 Ω		
	Video Output Level/ Impedance (1 kHz)	Composite video	VCR OUT, TV OUT		1 V(p-p)/75 Ω
	S-video	VCR OUT, TV OUT	(Y: luminance)		1 V(p-p)/75 Ω
			(C: chrominance, burst)		0.286 V(p-p)/75 Ω
	RGB	TV OUT			0.7 V(p-p)/75 Ω
	Signal-to-Noise Ratio (S/N)				45 dB
	Synchronize				Negative
FM tuner (IHF)	Tuning Range				87.5 MHz to 108.0 MHz
	Usable Sensitivity	Monaural			17.0 dBf (1.95 μV/75 Ω)
	50 dB Quieting Sensitivity	Monaural			21.3 dBf (3.2 μV/75 Ω)
		Stereo			41.3 dBf (31.5 μV/75 Ω)
	Stereo Separation at REC OUT				35 dB at 1 kHz
AM (MW) tuner	Tuning Range	MW			522 kHz to 1629 kHz
General	Power Requirements				AC 230~, 50 Hz
	Power Consumption				105 W (at operation) 2 W (in standby mode)
	Dimensions (W × H × D)				435 mm × 69.5 mm × 330.5 mm
	Mass				6.6 kg

Designs & specifications are subject to change without notice

SECTION 1
PRECAUTIONS

1.1 Safety Precautions

(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

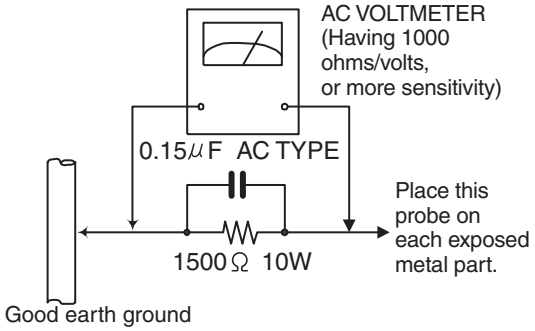
(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
  Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
  Measure the AC voltage across the resistor with the AC voltmeter.
  Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5μ mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Safety Precautions (U.K only)

(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
(2) Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
(3) Essential safety critical components are identified by (⚠) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

1.5.1 Warning

(1) Service should be performed by qualified personnel only.
(2) This equipment has been designed and manufactured to meet international safety standards.
(3) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(4) Repairs must be made in accordance with the relevant safety standards.
(5) It is essential that safety critical components are replaced by approved parts.
(6) If mains voltage selector is provided, check setting for local voltage.

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body section

3.1.1 Removing the top cover (See Figs.1 and 2)

(1) From the back side of the main body, remove the three screws **A** attaching the top cover.(See Fig.1)
(2) From the both sides of the main body, remove the four screws **B** attaching the top cover.
(3) Remove the top cover by moving up the back part of the top cover and release the six joints **a** using a longer driver from the inside. (See Fig.2.)

Note:

•Do not damage any part and board inside the main body when releasing the joints a using a longer driver.

3.1.2 Removing the front panel assembly (See Figs.2 to 4.)

- Prior to perform the following procedures, remove the top cover.
  (1) From the top side of the main body, cut the tie bands and disconnect the wire from the connector CN451 on the main board. (See Fig.2.)
  (2) From the bottom side of the main body, remove the four screws **C** attaching the front panel assembly. (See Fig.3.)
  (3) From the both sides of the main body, release the joints **b** and remove the front panel assembly in the direction of the arrow. (See Fig.4.)
  (4) From the top side of the main body, remove the screw **D** attaching the earth wire on the DC power board. (See Fig.2.)

References:

- After attaching the front panel assembly, bundling the wires using the new tie bands.
- When attaching the screw **D**, attach the earth wire with it.

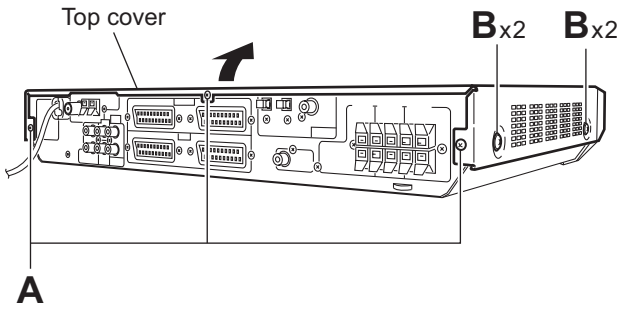


Fig.1

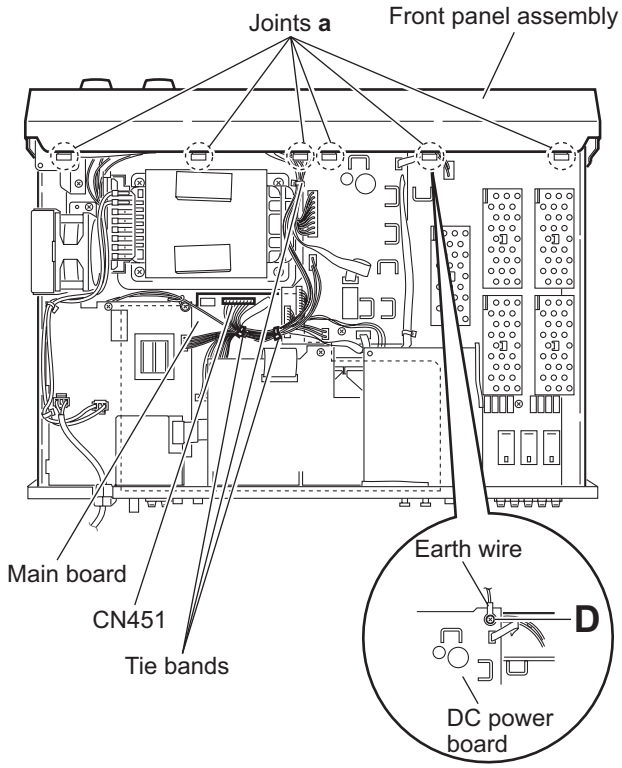


Fig.2

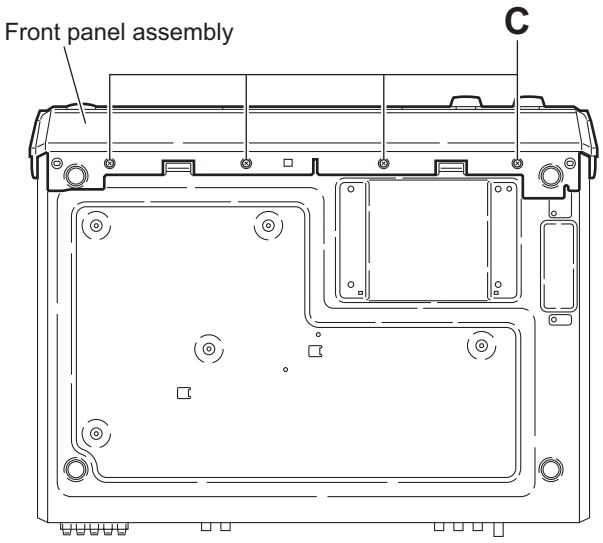


Fig.3

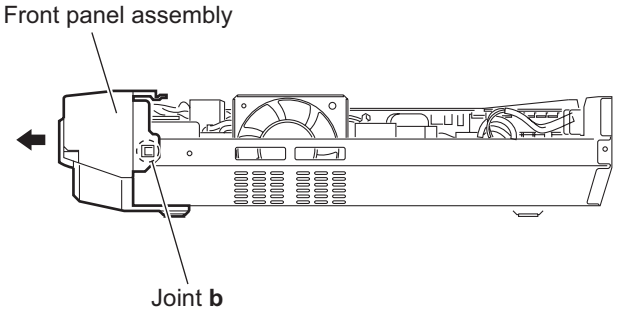


Fig.4

3.1.3 Removing the tuner (See Figs.5 and 6.)

- Prior to perform the following procedures, remove the top cover.
  (1) From the top side of the main body, disconnect the card wire from the connector CN1 on the tuner. (See Fig.5.)
  (2) From the back side of the main body, remove the two screws **E** attaching the tuner to the rear panel. (See Fig.6.)

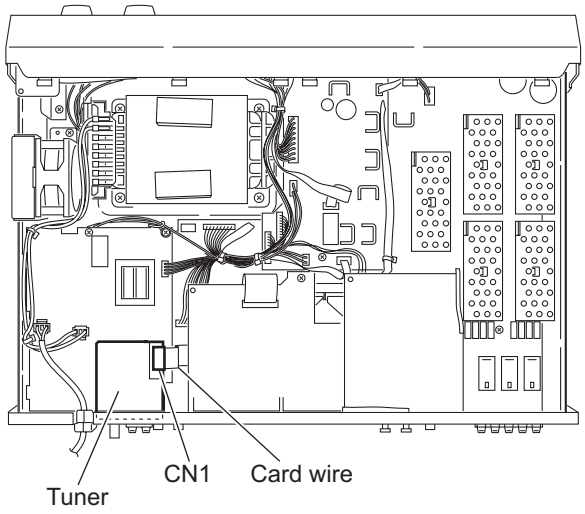


Fig.5

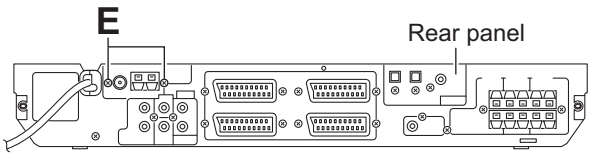


Fig.6

3.1.4 Removing the rear panel (See Fig.7)

- Prior to perform the following procedures, remove the top cover.
  (1) From the back side of the main body, remove strain relief from the rear panel in the direction of the arrow.
  (2) Remove the twenty screws **F** attaching the rear panel.

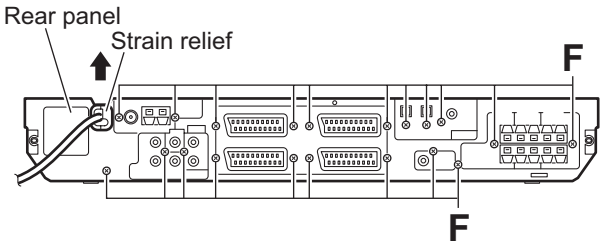


Fig.7

3.1.5 Removing the digital input board (See Fig.8)

- Prior to perform the following procedures, remove the top cover, tuner and rear panel.

Reference:

- Remove the tuner as required.

(1) From the top side of the main body, remove the connector CN521 on the digital input board in an upward direction.
(2) From the reverse side of the digital input board, disconnect the card wire from the connector CN522 on the digital input board.

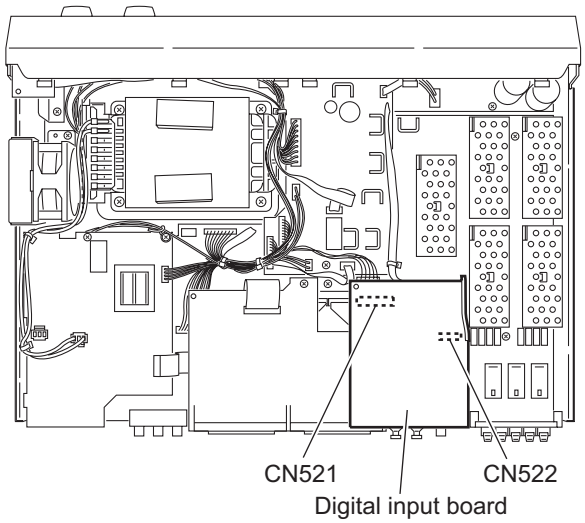


Fig.8

3.1.6 Removing the digital output board (See Fig.9)

- Prior to perform the following procedures, remove the top cover, tuner, rear panel and digital input board.

Reference:

- Remove the tuner as required.

(1) Disconnect the card wires from the connectors CN513 and CN514 on the digital output board.
(2) Remove the screw **G** attaching the digital output board.

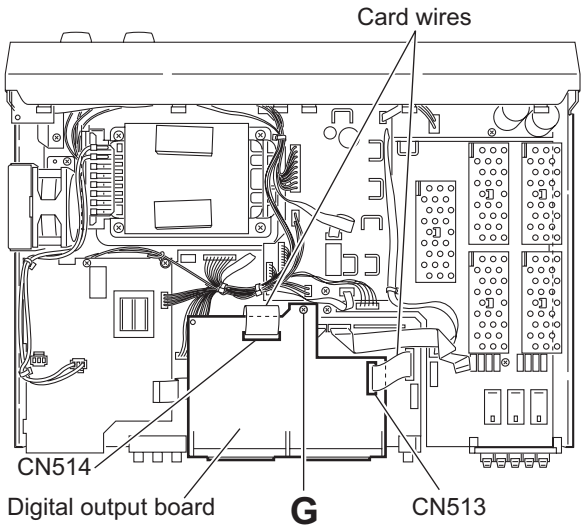


Fig.9

3.1.7 Removing the AC power supply board (See Fig.10)

- Prior to perform the following procedures, remove the top cover and tuner.

(1) From the top side of the main body, disconnect the power cord from the connector CN203 on the AC power supply board and remove it from the rear panel.
(2) Cut the tie bands and disconnect the wire from the connector CN218 on the DC power board.
(3) Remove the three screws **H** attaching the AC power supply board.
(4) Disconnect the wire from the connector CN202 on the AC power supply board and remove the wire holders from the reverse side of the AC power supply board.

Reference:

- When attaching the three screws H, attach the wire holder with it.

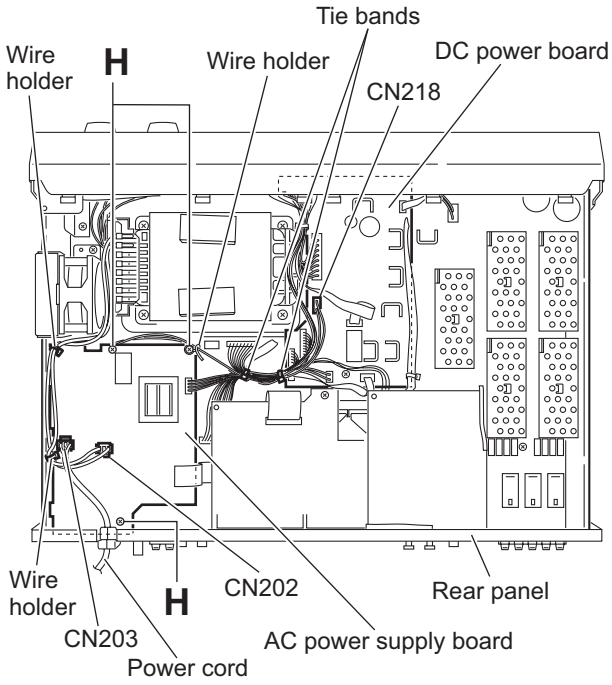


Fig.10

3.1.8 2.1.8 Removing the power transformer (See Fig.11)

- Prior to perform the following procedures, remove the top cover and front panel assembly.
  (1) From the top side of main body, disconnect the wire from the connector CN202 on the AC power supply board.
  (2) Remove the strain relief holding the power cord and remove the three screws H attaching the AC power supply board.
  (3) Lift the AC power supply board and remove the wire holders from the reverse side of the AC power board.
  (4) Cut the tie band.
  (5) Disconnect the wire from the connector CN201 on the DC power board.
  (6) Disconnect the wire from the connector CN702 on the rectifier board.
  (7) Remove the four screws **J** attaching the power transformer.

Reference:

- After attaching the front panel assembly, bundling the wires using the new tie bands.

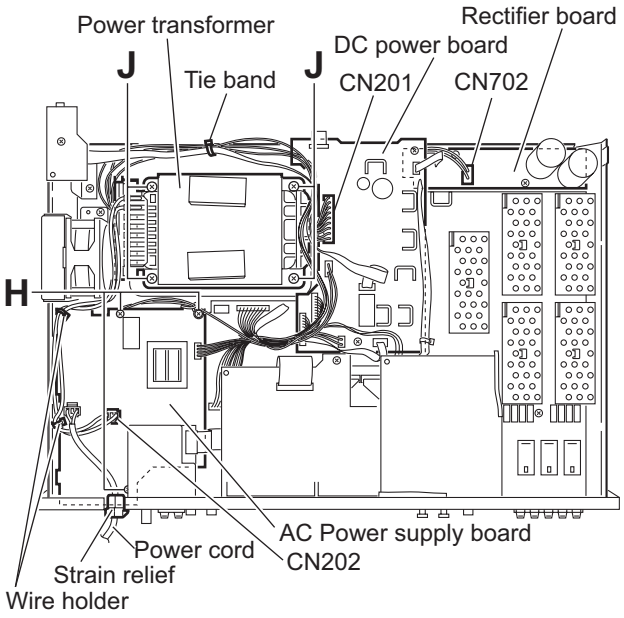


Fig.11

3.1.9 Removing the fan (See Figs.12 and 13)

- Prior to perform the following procedures, remove the top cover.
  (1) From the top side of the main body, cut the tie bands and disconnect the wire from the connector CN207 on the DC power board. (See Fig.12.)
  (2) Remove the screw **K** and screw **K'** attaching the fan assembly, then remove the fan assembly. (See Fig.12.)
  (3) Remove the two screws **L** attaching the fan to the fan bracket. (See Fig.13.)

Reference:

- After attaching the screw **K'**, attach the wire holder with it.

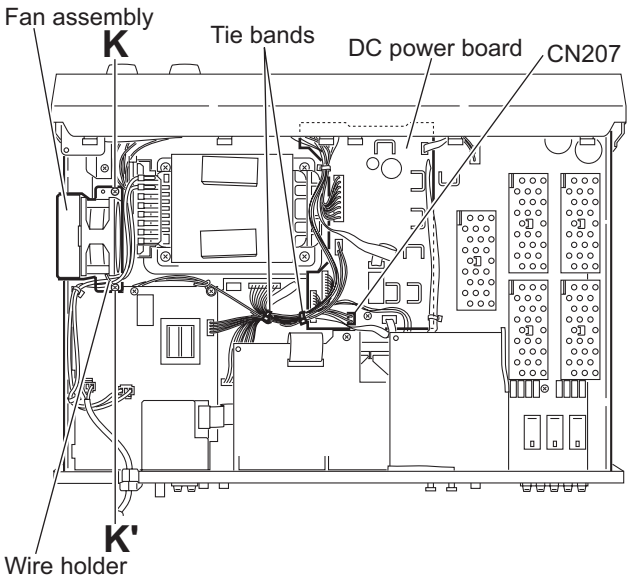


Fig.12

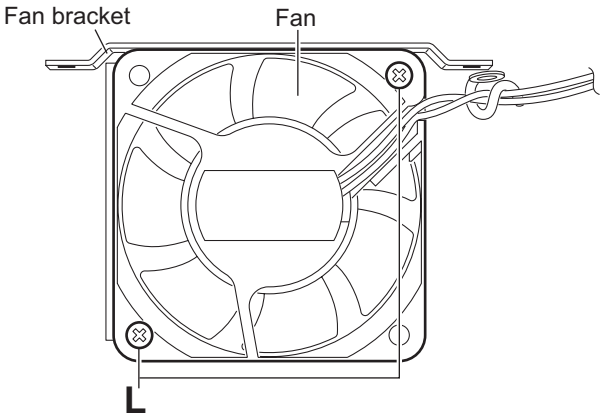


Fig.13

3.1.10 Removing the DC power board (See Fig.14)

- Prior to perform the following procedures, remove the top cover, front panel assembly, rear panel and digital input board.
  (1) From the top side of the main body, disconnect the wires from the connectors (CN201, CN206, CN207, CN211, CN218, CN510, CN520, CN711) on the DC power board.
  (2) Disconnect the parallel wire from the connector CN712 on the amp. board.
  (3) Remove the two screws **M** attaching the DC power board.

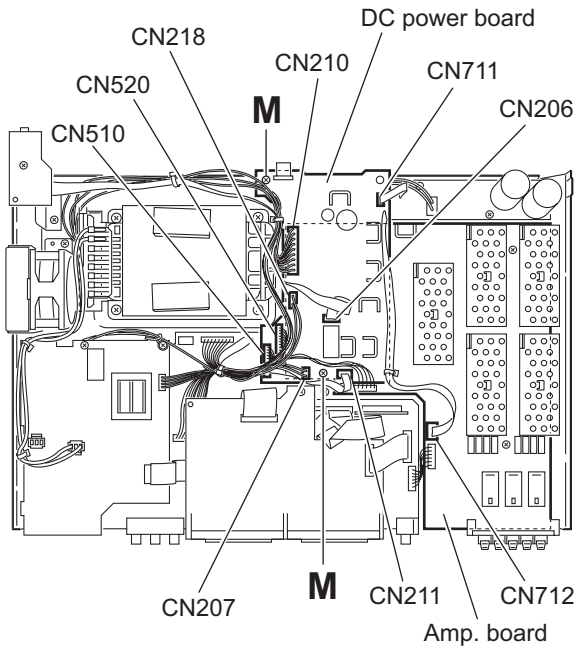


Fig.14

3.1.11 Removing the main board (See Fig.15)

- Prior to perform the following procedures, remove the top cover, front panel assembly, rear panel, digital input board, digital output board, AC power supply board and DC power board.
  (1) From the top side of the main body, disconnect the wires from the connector CN525 on the main board.
  (2) Disconnect the wires from the connectors CN516 and CN519 on the amp board.
  (3) Remove the two screws **N** attaching the main board.

Reference:

- When attaching the two screws **N**, attach the wire holder with it.

3.1.12 Removing the amp. board (See Fig.15)

- Prior to perform the following procedures, remove the top cover, front panel assembly, rear panel, digital input board, digital output board, AC power supply board and DC power board.
  (1) From the top side of the main body, disconnect the wires from the connectors CN516 and CN519 on the amp. board.
  (2) Disconnect the wire from the connector CN525 on the main board.
  (3) Disconnect the wire from the connector CN703 on the rectifier board.
  (4) Remove the four screws **P** attaching the amp. board.

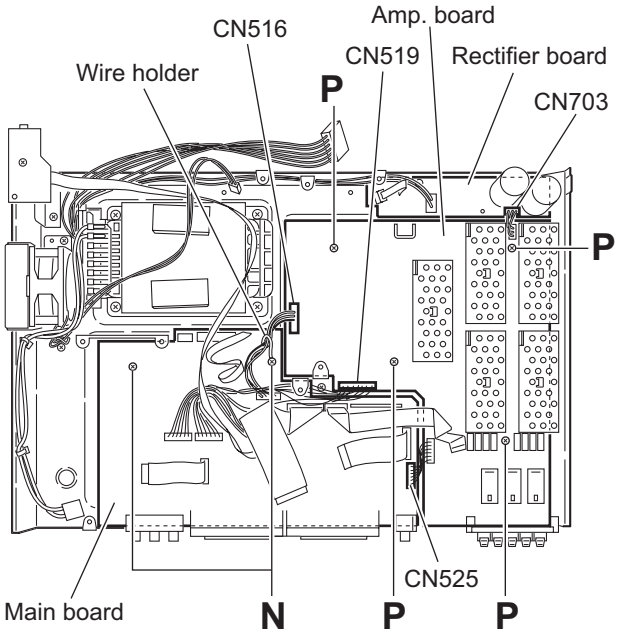


Fig.15

3.1.13 Removing the rectifier board
(See Fig.16)

- Prior to perform the following procedures, remove the top cover and front panel assembly.
  (1) From the top side of the main body, disconnect the wires from the connectors CN702 and CN703 on the rectifier board.
  (2) Disconnect the parallel wire from the connector CN711 on the DC power board.
  (3) Remove the two screws **Q** attaching the rectifier board.

3.1.14 Removing the headphone jack board
(See Fig.16)

- Prior to perform the following procedures, remove the top cover and the front panel.
  (1) From the top side of the main body, cut the tie bands.
  (2) Disconnect the wire from the connector CN206 on the DC power board.
  (3) Remove the screw **R** attaching the headphone jack board.

Reference:

- After attaching the front panel assembly, bundling the wires using the new tie bands.

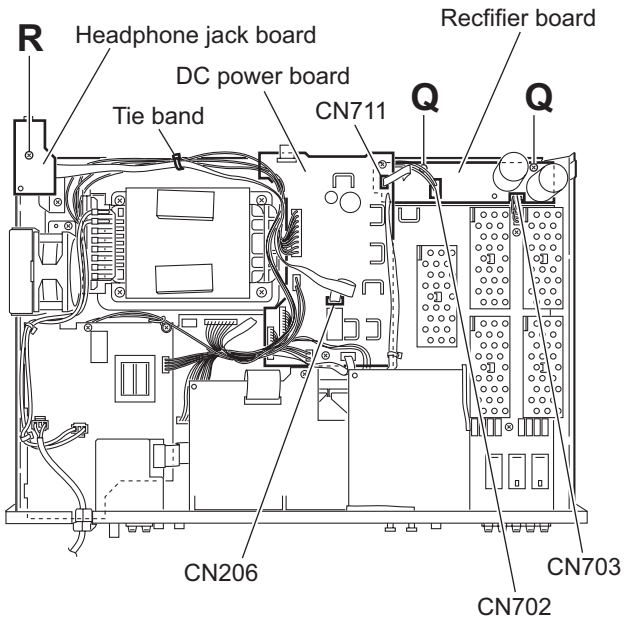


Fig.16

3.1.15 Removing the FL board
(See Fig.17)

- Prior to perform the following procedures, remove the top cover and front panel assembly.
  (1) From the inside of the front panel assembly, remove the six screws **S** attaching the FL board.
  (2) Disconnect the wire from the connector CN403 on the FL board.
  (3) Disconnect the connector CN401 on the FL board in an upward direction.

3.1.16 2.1.16 Removing the volume board
(See Fig.17)

- Prior to perform the following procedures, remove the top cover and front panel assembly.
  (1) From the inside of the front panel assembly, remove three screws **T** attaching the volume board.
  (2) Disconnect the wire from the connector CN403 on the FL board.

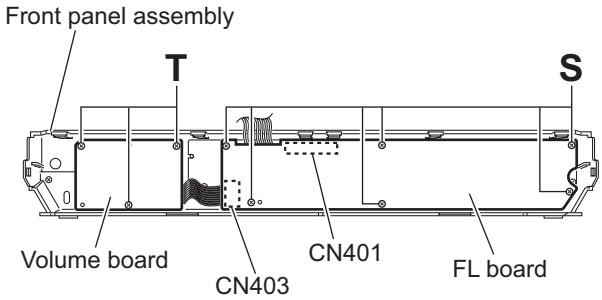


Fig.17

3.1.17 Removing the SW board
(See Fig.18)

- Prior to perform the following procedure, remove the top cover, front panel assembly and FL board.
  (1) From the inside of the front panel assembly, remove the seven screws **U** attaching the SW board.

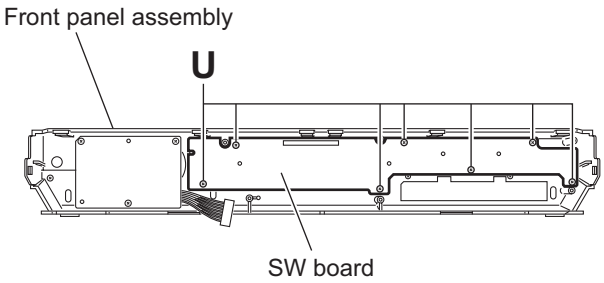


Fig.18

SECTION 4
ADJUSTMENT

This service manual does not describe ADJUSTMENT.

SECTION 5
TROUBLE SHOOTING

This service manual does not describe TROUBLE SHOOTING.

PARTS LIST

[RX-ES1SL]

* All printed circuit boards and its assemblies are not available as service parts.

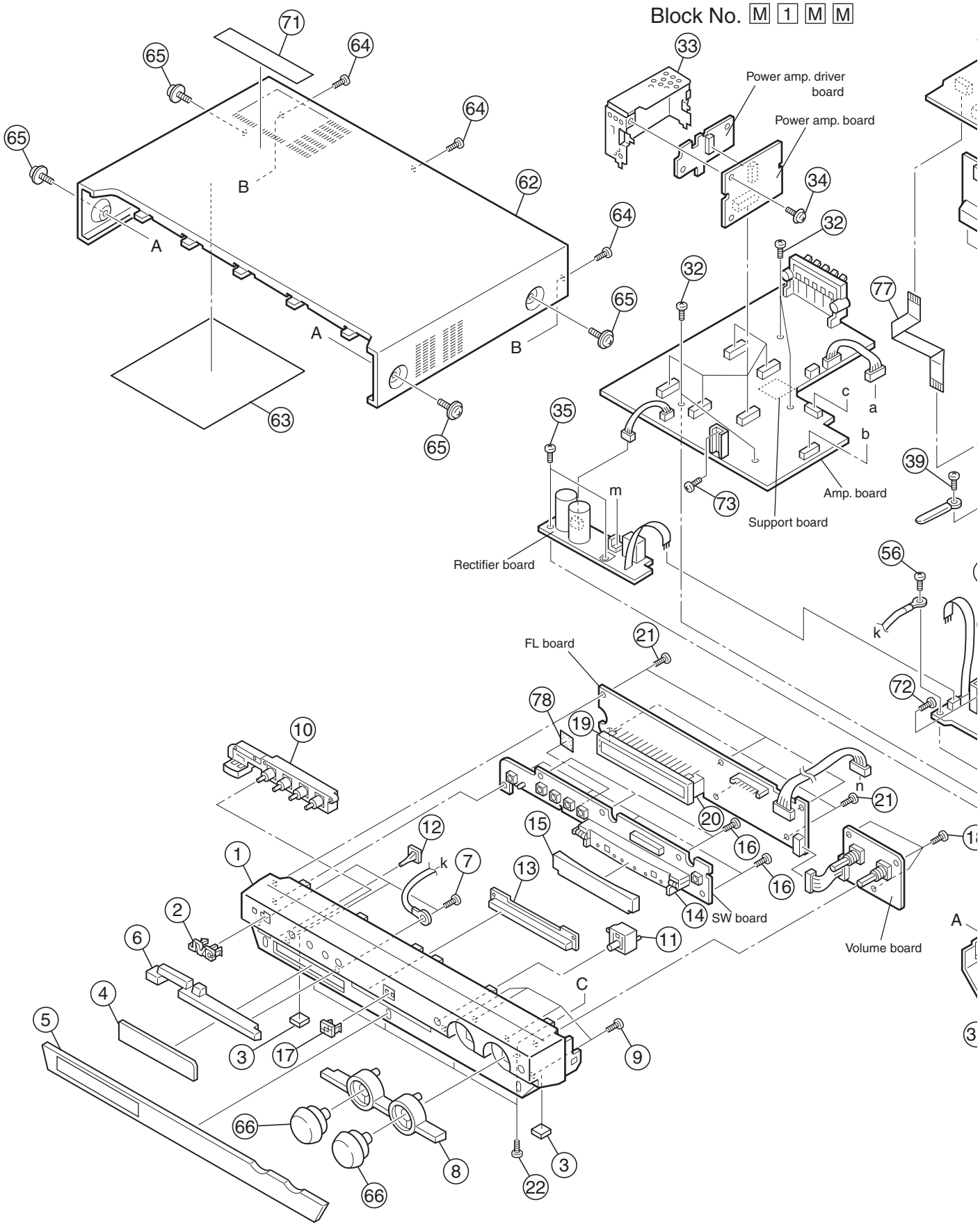
Area suffix

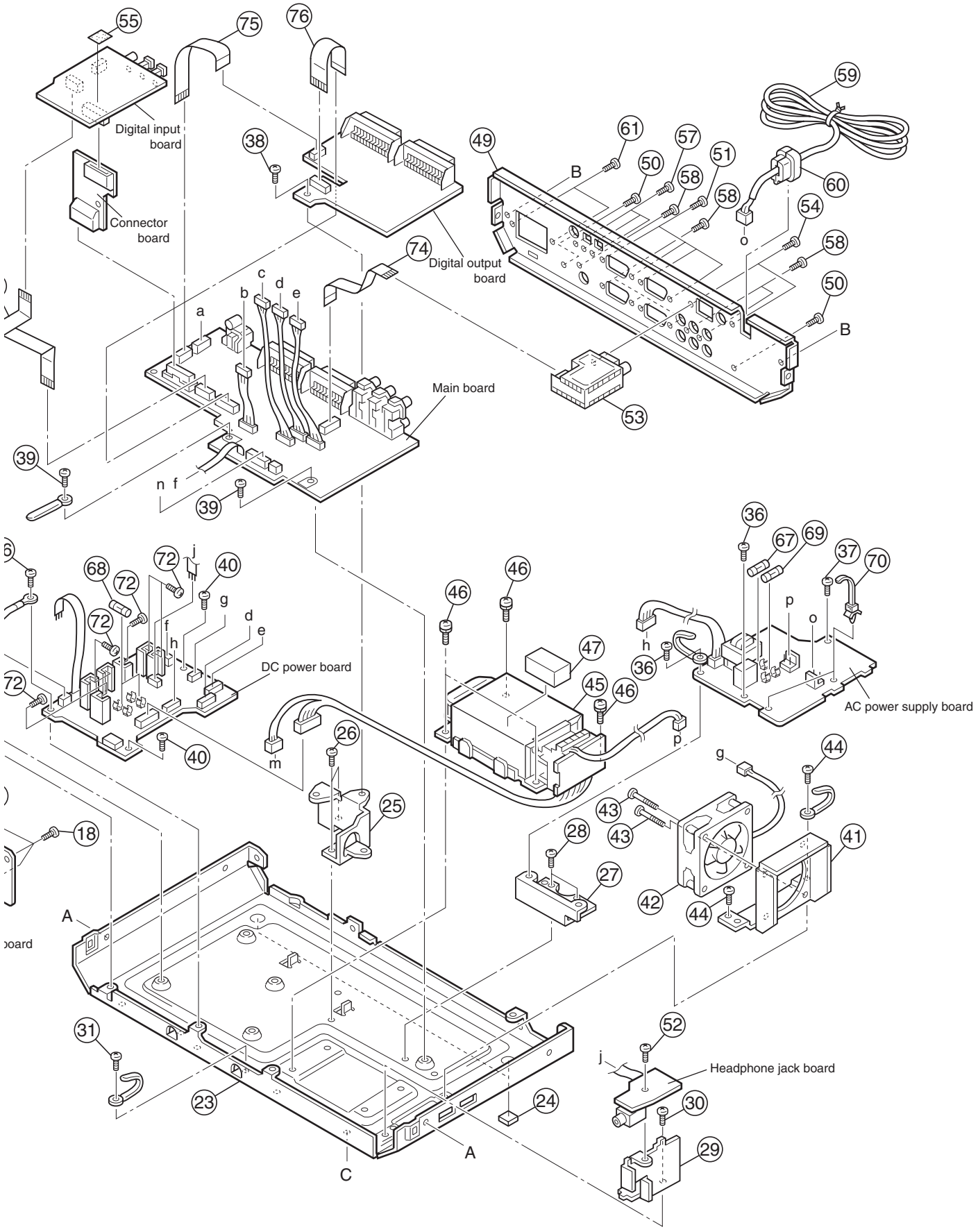
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe

- Contents -

Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
Electrical parts list (Block No.01~06) ---------- 3- 5
Packing materials and accessories parts list (Block No.M3) ---------- 3-18

Exploded view of general assembly and parts list




Digital input board
Connector board
Digital output board
Main board
DC power board
AC power supply board
Headphone jack board

General assembly

Block No. [M][1][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LV10781-006A	FRONT PANEL		
2	LV43338-002A	JVC MARK		
3	LV43622-001A	FOOT	(x2)	
4	LV43381-002A	FILTER		
5	LV21463-004A	FRONT LENS		
6	LV34151-002A	ORNAMENT(L)		
7	QYSBSF2608Z	TAPPING SCREW	2.6mm x 8mm(x3)	
8	LV34152-002A	ORNAMENT(R)		
9	QYSBSF2608Z	TAPPING SCREW	2.6mm x 8mm(x4)	
10	LV34155-002A	BUTTON(FUNCTION		
11	LV34156-001A	BUTTON(SET)		
12	LV43382-001A	INDICATOR		
13	LV34153-002A	DISPLAY LENS		
14	LV34159-003A	LED HOLDER		
15	LV34154-001A	REFRECTOR		
16	QYSBSF2608Z	TAPPING SCREW	2.6mm x 8mm(x7)	
17	LV43380-001A	MARK		
18	QYSBSF2608Z	TAPPING SCREW	2.6mm x 8mm(x3)	
19	LV34158-001A	FL HOLDER(L)	BK 401	
20	LV34158-002A	FL HOLDER(R)	BK 402	
21	QYSBSF2608Z	TAPPING SCREW	2.6mm x 8mm(x6)	
22	QYSBSG3008Z	TAPPING SCREW	3mm x 8mm(x4)	
23	LV10782-003A	CHASSIS BASE		
24	LV43622-001A	FOOT	(x2)	
25	LV34163-001A	SUPPORT BRACKET		
26	QYSBSG3005M	TAPPING SCREW	M3 x 5mm(x2)	
27	LV34161-001A	PWB BRACKET		
28	QYSBSG3005M	TAPPING SCREW	M3 x 5mm(x2)	
29	LV34164-002A	H.PHONE BRACKET		
30	QYSBSG3005M	TAPPING SCREW	M3 x 5mm	
31	QYSBST3006Z	TAPPING SCREW	3mm x 6mm	
32	QYSBST3006Z	TAPPING SCREW	3mm x 6mm(x4)	
33	LV34160-002A	SHIELD CASE	(x5)	
34	QYSDST2605Z	SCREW	2.6mm x 5mm(x5)	
35	QYSBST3006Z	TAPPING SCREW	3mm x 6mm(x2)	
36	QYSBST3006Z	TAPPING SCREW	3mm x 6mm(x2)	
37	QYSBST3006Z	TAPPING SCREW	3mm x 6mm	
38	QYSBST3006Z	TAPPING SCREW	3mm x 6mm	
39	QYSBST3006Z	TAPPING SCREW	3mm x 6mm(x2)	
40	QYSBST3006Z	TAPPING SCREW	3mm x 6mm(x2)	
41	LV34162-001A	FAN BRACKET		
42	QAR0283-001	FAN MOTER		
43	QYSBSG3030Z	TAPPING SCREW	M3 x 30mm(x2)	
44	LV43451-001A	SPECIAL SCREW	(x2)	
⚠ 45	QQT0402-003	POWER TRANSF		
46	QYSDSTL4008E	TAP SCREW	M4 x 8mm(x4)	
47	LV30225-0N8A	SPECER		
49	LV21464-003A	REAR PANEL		
50	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x2)	
51	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x4)	
52	QYSBST3006Z	TAPPING SCREW	3mm x 6mm	
53	QAU0278-003	TUNER		
54	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x2)	
55	LV30225-0D4A	SPECER		
56	QYSBST3006Z	TAPPING SCREW	3mm x 6mm	
57	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x3)	
58	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x7)	
⚠ 59	QMPK210-205-JN	POWER CORD	2.05m BLACK	ES1SLE, ES1SLEN
⚠ 59	QMPN160-200-JD	POWER CORD		ES1SLB
⚠ 60	QZW0033-001	STRAIN RELIEF		
61	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x2)	
62	LV21465-001A/S/	TOP COVER		
63	LV43565-002A	TOP BARRIER		
64	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x3)	
65	QYSDSG3008N	TAPPING SCREW	3mm x 8mm(x4)	
66	LV43601-002A	JOG KNOB ASSY	(x2)	
⚠ 67	QMF51W2-1R6-J8	FUSE	F 205 1.6A AC250V	
⚠ 68	QMF51W2-2R0-J8	FUSE	F 202 F 203(x2)	
⚠ 69	QMF51E2-R10-J1	FUSE	F 204 0.1A AC250V	
70	E307572-001	FASTENER	(x2)	
71	E409396-003	CAUTION LABEL		
72	QYSBSG3008E	TAPPING SCREW	3mm x 8mm(x6)	
73	QYSBSG3008E	TAPPING SCREW	3mm x 8mm	
74	QUQ412-1107CJ	FFC WIRE		
75	QUQ412-1508CJ	FFC WIRE		
76	QUQ412-1908CJ	FFC WIRE		
77	QUQ412-1114CJ	FFC WIRE		
78	VYSH101-009	SPECER		

Electrical parts list

Front board

Block No. [0][1][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC401	MN101C35DMF	IC		
IC402	GP1UM261XK	IR DETECT UNIT	Receiver	
Q201	KRC105S-X	CHIP D.TRANSISTOR		
Q203	KTC3203/OY/-T	TRANSISTOR		
Q204	KTC3200/GL/-T	TRANSISTOR		
⚠ Q205	KTA1046/Y/	TRANSISTOR		
⚠ Q207	KTA1046/Y/	TRANSISTOR		
⚠ Q208	2SD2395/EF/	TRANTRANSISTOR		
⚠ Q209	2SD2395/EF/	TRANTRANSISTOR		
⚠ Q210	2SD2395/EF/	TRANTRANSISTOR		
⚠ Q211	2SD2395/EF/	TRANTRANSISTOR		
⚠ Q212	2SD2395/EF/	TRANTRANSISTOR		
⚠ Q213	2SD2395/EF/	TRANTRANSISTOR		
Q214	KRA102S-X	DIGI TRANSISTOR		
Q215	KRC102S-X	DIGI TRANSISTOR		
Q216	KRA102S-X	DIGI TRANSISTOR		
Q217	KRC102S-X	DIGI TRANSISTOR		
Q218	KRA102S-X	DIGI TRANSISTOR		
Q219	KRC102S-X	DIGI TRANSISTOR		
Q220	KRC111S-X	TRANSISTOR		
Q221	KRC111S-X	TRANSISTOR		
Q222	KRC111S-X	TRANSISTOR		
Q223	KRC111S-X	TRANSISTOR		
Q225	KRC105S-X	CHIP D.TRANSISTOR		
Q231	KRC102S-X	DIGI TRANSISTOR		
Q401	KRC107S-X	DIGI TRANSISTOR		
Q403	KRA114S-X	TRANSISTOR		
Q404	KRA107S-X	TRANSISTOR		
Q405	KRA107S-X	TRANSISTOR		
Q406	KRA107S-X	TRANSISTOR		
Q407	KRA107S-X	TRANSISTOR		
Q408	KRA107S-X	TRANSISTOR		
Q409	KRA107S-X	TRANSISTOR		
⚠ D201	10EDB20-T4	DIODE		
⚠ D202	10EDB20-T4	DIODE		
⚠ D203	10EDB20-T4	DIODE		
⚠ D204	10EDB20-T4	DIODE		
D205	MA111-X	SI DIODE		
D207	MTZJ6.2C-T2	Z DIODE		
⚠ D208	10DDA20-FD	DIODE		
⚠ D209	10EDB20-T4	DIODE		
⚠ D210	10DDA20-FD	DIODE		
⚠ D211	10EDB20-T4	DIODE		
⚠ D212	10EDB20-T4	DIODE		
⚠ D213	10EDB20-T4	DIODE		
D215	MTZJ7.5C-T2	Z DIODE		
D216	MTZJ7.5C-T2	Z DIODE		
D217	MTZJ6.2C-T2	Z DIODE		
⚠ D218	MTZJ10B-T2	Z DIODE		
D219	MTZJ5.6C-T2	Z DIODE		
D220	MTZJ5.6C-T2	Z DIODE		
D221	MA111-X	SI DIODE		
⚠ D222	10EDB20-T4	DIODE		
D223	MTZJ33C-T2	Z DIODE		
D224	MTZJ6.2C-T2	Z DIODE		
D225	MA111-X	SI DIODE		
⚠ D231	10EDB20-T4	DIODE		
⚠ D232	10EDB20-T4	DIODE		
⚠ D233	10EDB20-T4	DIODE		
D235	MA111-X	SI DIODE		
D401	SLR-342VC-T	LED		
D402	SLR-342VC-T	LED		
D403	SLR-342VC-T	LED		
D404	SPR-325MVW/L/-T	LED	GREEN-RED	
D405	SPR-325MVW/L/-T	LED	GREEN-RED	
D406	SPR-325MVW/L/-T	LED	GREEN-RED	
D407	SLR-342VC-T	LED		
D408	204-10SUBC/A4UV	LED		
D409	204-10SUBC/A4UV	LED		

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ C201	QCZ9104-472	C CAPACITOR	4700pF	
C202	QFLC2AJ-472Z	M CAPACITOR	4700pF 100V J	
C203	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C205	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C206	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C207	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C208	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C209	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C210	QETM1EM-338	E CAPACITOR	3300uF 25V M	
C211	QETM1EM-108	E CAPACITOR	1000uF 25V M	
C212	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	
C213	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	
C214	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C215	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C221	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C222	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C223	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
⚠ C224	QETM1EM-108	E CAPACITOR	1000uF 25V M	
C225	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C226	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C241	QETN1HM-227Z	E CAPACITOR	220uF 50V M	
C242	QETN2AM-107Z	E CAPACITOR	100uF 100V M	
C251	QETN1CM-226Z	E CAPACITOR	22uF 16V M	
C401	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C402	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C403	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C404	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C405	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C406	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C407	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C408	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C409	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C410	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C410	QER61HM-475Z	E CAPACITOR	4.7uF 50V M	
C411	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C412	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C413	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C414	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C415	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C416	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C417	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C421	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
⚠ R202	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
⚠ R203	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
⚠ R206	QRJ146J-821X	UNF C RESISTOR	820Ω 1/4W J	
⚠ R207	QRJ146J-2R7X	UNF C RESISTOR	2.7Ω 1/4W J	
R208	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
⚠ R209	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
⚠ R210	QRZ9005-100X	FUSI RESISTOR	10Ω	
⚠ R211	QRK126J-562X	UNF C RESISTOR	5.6kΩ 1/2W J	
⚠ R215	QRZ9005-100X	FUSI RESISTOR	10Ω	
⚠ R216	QRJ146J-152X	UNF C RESISTOR	1.5kΩ 1/4W J	
⚠ R217	QRZ9005-100X	FUSI RESISTOR	10Ω	
⚠ R218	QRJ146J-152X	UNF C RESISTOR	1.5kΩ 1/4W J	
R219	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R220	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
⚠ R221	QRZ9005-100X	FUSI RESISTOR	10Ω	
⚠ R222	QRJ146J-332X	UNF C RESISTOR	3.3kΩ 1/4W J	
R223	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R224	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
⚠ R225	QRZ9005-100X	FUSI RESISTOR	10Ω	
⚠ R226	QRJ146J-102X	UNF C RESISTOR	1kΩ 1/4W J	
R227	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R228	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
⚠ R229	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
⚠ R230	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
⚠ R231	QRJ146J-182X	UNF C RESISTOR	1.8kΩ 1/4W J	
⚠ R232	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
⚠ R233	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
R234	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R235	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
⚠ R236	QRZ9005-100X	FUSI RESISTOR	10Ω	
⚠ R237	QRJ146J-332X	UNF C RESISTOR	3.3kΩ 1/4W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R238	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R239	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
⚠ R241	QRJ146J-820X	UNF C RESISTOR	82Ω 1/4W J	
R242	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
⚠ R245	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
R251	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R402	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R403	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R404	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R405	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R406	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R407	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R408	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R409	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R410	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R411	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R412	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R413	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R414	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R415	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R416	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R417	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R418	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R419	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R420	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R421	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R422	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R423	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R424	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R425	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R426	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R427	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
R428	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
R429	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R430	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R431	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R432	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R433	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R434	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R437	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R438	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R439	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R440	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R441	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R442	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R443	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R444	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R445	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R446	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R447	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R448	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R449	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R450	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R451	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R452	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R455	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
⚠ T202	QQT0281-002	POWER TRANSF		
CN201	QGA3901C1-09	CONNECTOR	W-B (1-9)	
⚠ CN202	QGA7901C1-02	CONNECTOR	W-B (1-2)	
⚠ CN203	QGA7901C1-02	CONNECTOR	W-B (1-2)	
CN206	QGD2501C1-04Z	CONNECTOR	(1-4)	
CN207	QGA2501C1-02	CONNECTOR	W-B (1-2)	
CN208	QJK017-041704	SIN CR C-B WIRE		
CN211	QGD2501C1-03Z	CONNECTOR	(1-3)	
CN218	QGA2501C1-04	CONNECTOR	W-B (1-4)	
CN401	QJK018-092804	SIN CR C-B WIRE		
CN402	QGB1216K1-06S	CONNECTOR	B-B (1-6)	
CN403	QGA2501F1-07	CONNECTOR	W-B (1-7)	
CN404	QGB2011MQ-18	CONNECTOR	B-B (1-18)	
CN412	QGB1216J1-06S	CONNECTOR	B-B (1-6)	
CN413	QJK025-070702	SIN CR C-B WIRE		
CN414	QGB2011L3-18	CONNECTOR	B-B (1-18)	
CN510	QGA2501C1-08	CONNECTOR	W-B (1-8)	
CN520	QGA2501C1-07	CONNECTOR	W-B (1-7)	
CN711	QGD2501C1-03Z	CONNECTOR	(1-3)	

⚠ Symbol No.	Part No.	Part Name	Description	Local
DI401	QLF0116-001	FL TUBE		
EP201	QNZ0136-001Z	EARTH PLATE		
EP202	QNZ0136-001Z	EARTH PLATE		
EP204	QNZ0136-001Z	EARTH PLATE		
FC203	QNG0020-001Z	FUSE CLIP		
FC204	QNG0020-001Z	FUSE CLIP		
FC205	QNG0020-001Z	FUSE CLIP		
FC206	QNG0020-001Z	FUSE CLIP		
FC207	QNG0020-001Z	FUSE CLIP		
FC208	QNG0020-001Z	FUSE CLIP		
FC209	QNG0020-001Z	FUSE CLIP		
FC210	QNG0020-001Z	FUSE CLIP		
FS224	VYSH101-034	SPECER		
FS400	LV30225-0N3A	FELT SPACER		
FS401	LV30225-0N3A	FELT SPACER		
FW702	QUM213-10DGZ3	PARA RIBON WIRE		
HS207	E70306-006	HEAT SINK		
HS208	E70306-006	HEAT SINK		
HS209	E70306-006	HEAT SINK		
HS211	E70306-006	HEAT SINK		
HS212	E70306-006	HEAT SINK		
HS213	E70306-006	HEAT SINK		
JS401	QSW1016-001	ROTARY ENCODER		
JS402	QSW1022-002	ROTARY ENCODER		
⚠ RY201	QSK0142-001	RELAY		
⚠ RY202	QSK0127-001	RELAY		
S401	QSW0683-001Z	PUSH SW		
S402	QSW0683-001Z	PUSH SW		
S403	QSW0683-001Z	PUSH SW		
S404	QSW0683-001Z	PUSH SW		
S405	QSW0683-001Z	PUSH SW		
S406	QSW0683-001Z	PUSH SW		
⚠ TH201	QAD0095-4R7Z	P THERMISTOR	4.7Ω M	
X401	QAX0246-001Z	C RESONATOR	8.00MHz	

Amp. board

Block No. [0][2][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC301	NJM4580M-X	IC	Ope. Amp	
IC302	NJM2115V-W	IC	Regulator	
IC304	NJM4580M-X	IC	Ope. Amp	
IC311	NJU7109F3-X	IC		
IC312	NJU7109F3-X	IC		
IC371	HA17558AF-X	IC		
IC601	AK4527BVQP	IC	A/D D/A converter	
IC609	HA17558AF-X	IC		
IC610	HA17558AF-X	IC		
IC611	MM74HC08SJ-X	IC	Quad. 2-input AND gates	
IC612	TC74HC4072AF-X	IC	OR gate	
IC621	MM74HCU04SJ-X	IC	Inverter	
IC631	TC9446F-025	IC	Audio digital processor	
IC641	LP61L1024S-12-X	IC	SRAM	
IC650	HA17558AF-X	IC		
IC651	HA17558AF-X	IC		
IC652	IMX9-W	TRANSISTOR	Driver	
IC661	HA17558AF-X	IC		
IC662	IMX9-W	TRANSISTOR	Driver	
IC671	UPD784215AGC167	IC(MICRO C ROM)	Digital signal controller	
IC672	NC7ST32P5-X	IC(DIGITAL)	2-Input OR Gate	
IC681	MM1563DF-X	IC	3.3V Regulator	
IC682	IMX9-W	TRANSISTOR	Driver	
IC683	MM1613DN-X	IC	Regulator	
IC690	HA17558AF-X	IC		
IC691	HA17558AF-X	IC		
IC701	MM74HCU04SJ-X	IC	Inverter	
IC702	MM74HC00SJ-X	IC		
IC703	MM74HC04SJ-X	IC(DIGITAL)		
IC705	KIA78S05P-T	IC		
IC706	KIA7805API	IC	Regulator	

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC708	MM74HC08SJ-X	IC	Quad. 2-input AND gates	
IC709	MM74HC74ASJ-X	IC		
IC801	NJM4580M-X	IC	Ope. Amp	
IC802	NJM2115V-W	IC	Regulator	
IC804	NJM4580M-X	IC	Ope. Amp	
IC811	NJU7109F3-X	IC		
IC812	NJU7109F3-X	IC		
IC871	HA17558AF-X	IC		
IC901	NJM4580M-X	IC	Ope. Amp	
IC902	NJM2115V-W	IC	Regulator	
IC911	NJU7109F3-X	IC		
IC971	HA17558AF-X	IC		
Q301	UMY1N-W	TRANSISTOR		
Q302	UMY1N-W	TRANSISTOR		
Q303	KTA1268/GL/-T	TRANSISTOR		
Q304	KTA1268/GL/-T	TRANSISTOR		
Q607	UN2113-X	TRANSISTOR		
Q670	DTC114YE-X	TRANSISTOR		
Q671	2SD2114K/VW/-X	TRANSISTOR		
Q672	DTC114YE-X	TRANSISTOR		
Q673	UN2113-X	TRANSISTOR		
Q711	KRC104S-X	TRANSISTOR		
Q712	KRC104S-X	TRANSISTOR		
Q713	KRC104S-X	TRANSISTOR		
Q714	KRC104S-X	TRANSISTOR		
Q715	KRC104S-X	TRANSISTOR		
Q717	KRC102S-X	DIGI TRANSISTOR		
Q718	KRC102S-X	DIGI TRANSISTOR		
Q719	KRC102S-X	DIGI TRANSISTOR		
Q721	KRC105S-X	CHIP D.TRANSISTOR		
Q722	KTA1046/Y/	TRANSISTOR		
Q723	KTC3199/GL/-T	TRANSISTOR		
Q724	KTC3199/GL/-T	TRANSISTOR		
Q725	KTA1046/Y/	TRANSISTOR		
Q726	2SC2812N/6/-X	TRANSISTOR		
Q727	KRA104S-X	DIGI TRANSISTOR		
Q728	KRC102S-X	DIGI TRANSISTOR		
Q731	KRA114S-X	TRANSISTOR		
Q741	KRC102S-X	DIGI TRANSISTOR		
Q742	KRC105S-X	CHIP D.TRANSISTOR		
Q743	2SD601A/RS/-X	TRANSISTOR		
Q744	2SB709A/Q/-X	TRANSISTOR		
Q745	2SD601A/RS/-X	TRANSISTOR		
Q801	UMY1N-W	TRANSISTOR		
Q802	UMY1N-W	TRANSISTOR		
Q803	KTA1268/GL/-T	TRANSISTOR		
Q804	KTA1268/GL/-T	TRANSISTOR		
Q901	UMY1N-W	TRANSISTOR		
Q903	KTA1268/GL/-T	TRANSISTOR		
Q1301	2SA1514K/RS/-X	TRANSISTOR		
Q1302	2SA1514K/RS/-X	TRANSISTOR		
Q1303	2SA1514K/RS/-X	TRANSISTOR		
Q1304	2SA1514K/RS/-X	TRANSISTOR		
Q1305	2SA1514K/RS/-X	TRANSISTOR		
Q1306	2SA1514K/RS/-X	TRANSISTOR		
Q1307	2SA1514K/RS/-X	TRANSISTOR		
Q1308	2SA1514K/RS/-X	TRANSISTOR		
Q1801	2SA1514K/RS/-X	TRANSISTOR		
Q1802	2SA1514K/RS/-X	TRANSISTOR		
Q1803	2SA1514K/RS/-X	TRANSISTOR		
Q1804	2SA1514K/RS/-X	TRANSISTOR		
Q1805	2SA1514K/RS/-X	TRANSISTOR		
Q1806	2SA1514K/RS/-X	TRANSISTOR		
Q1807	2SA1514K/RS/-X	TRANSISTOR		
Q1808	2SA1514K/RS/-X	TRANSISTOR		
Q1901	2SA1514K/RS/-X	TRANSISTOR		
Q1903	2SA1514K/RS/-X	TRANSISTOR		
Q1905	2SA1514K/RS/-X	TRANSISTOR		
Q1907	2SA1514K/RS/-X	TRANSISTOR		
Q2501	UN2113-X	TRANSISTOR		
D371	MA704A-X	S.K.DIODE		
D372	MA704A-X	S.K.DIODE		
D373	UDZS4.7B-X	Z DIODE		
D374	UDZS4.7B-X	Z DIODE		
D607	1SS355-X	SI DIODE		
D608	1SS355-X	SI DIODE		
D609	1SS355-X	SI DIODE		
D610	1SS355-X	SI DIODE		
⚠ D701	30PRA20-FC	SI DIODE		
⚠ D702	30PRA20-FC	SI DIODE		
⚠ D703	30PRA20-FC	SI DIODE		
⚠ D704	30PRA20-FC	SI DIODE		
D705	MA111-X	SI DIODE		
D712	ERA18-04-T1	FR DIODE		
D713	UDZS6.2B-X	Z DIODE		
D714	UDZS10B-X	Z DIODE		
D715	UDZS5.1B-X	Z DIODE		
D716	MA111-X	SI DIODE		
D717	UDZS16B-X	Z DIODE		
D718	MA111-X	SI DIODE		
D719	UDZS6.2B-X	Z DIODE		
D721	MA111-X	SI DIODE		
D722	MA111-X	SI DIODE		
D725	UDZS7.5B-X	Z DIODE		
D726	UDZS7.5B-X	Z DIODE		
D727	UDZS20B-X	Z DIODE		
D728	UDZS20B-X	Z DIODE		
D729	UDZS6.8B-X	SI DIODE		
D731	UDZS6.8B-X	SI DIODE		
D732	1SS355-X	SI DIODE		
D733	1SS355-X	SI DIODE		
D735	MA111-X	SI DIODE		
D736	MA111-X	SI DIODE		
D751	MA111-X	SI DIODE		
D752	MA111-X	SI DIODE		
D753	MA111-X	SI DIODE		
D871	MA704A-X	S.K.DIODE		
D872	MA704A-X	S.K.DIODE		
D873	UDZS4.7B-X	Z DIODE		
D874	UDZS4.7B-X	Z DIODE		
D971	MA704A-X	S.K.DIODE		
D973	UDZS4.7B-X	Z DIODE		
D1301	MA111-X	SI DIODE		
D1302	MA111-X	SI DIODE		
D1303	MA111-X	SI DIODE		
D1304	MA111-X	SI DIODE		
D1305	MA111-X	SI DIODE		
D1306	MA111-X	SI DIODE		
D1307	MA111-X	SI DIODE		
D1308	MA111-X	SI DIODE		
D1311	MA111-X	SI DIODE		
D1312	MA111-X	SI DIODE		
D1313	MA111-X	SI DIODE		
D1314	MA111-X	SI DIODE		
D1351	MA111-X	SI DIODE		
D1801	MA111-X	SI DIODE		
D1802	MA111-X	SI DIODE		
D1803	MA111-X	SI DIODE		
D1804	MA111-X	SI DIODE		
D1805	MA111-X	SI DIODE		
D1806	MA111-X	SI DIODE		
D1807	MA111-X	SI DIODE		
D1808	MA111-X	SI DIODE		
D1811	MA111-X	SI DIODE		
D1812	MA111-X	SI DIODE		
D1813	MA111-X	SI DIODE		
D1814	MA111-X	SI DIODE		
D1851	MA111-X	SI DIODE		
D1901	MA111-X	SI DIODE		
D1903	MA111-X	SI DIODE		
D1905	MA111-X	SI DIODE		
D1907	MA111-X	SI DIODE		
D1911	MA111-X	SI DIODE		
D1913	MA111-X	SI DIODE		
D1951	MA111-X	SI DIODE		
C301	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C302	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C303	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C304	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C305	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C306	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C307	NCS31HJ-221X	C CAPACITOR	220pF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C308	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
C309	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C310	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C311	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C312	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C313	NCS31HJ-181X	C CAPACITOR	180pF 50V J	
C314	NCS31HJ-181X	C CAPACITOR	180pF 50V J	
C315	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C316	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C317	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C318	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C319	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C320	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C327	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C328	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C331	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C332	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C333	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C334	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C371	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C372	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C373	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C374	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C375	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	
C376	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	
C381	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C382	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C601	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C602	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C603	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C604	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C605	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C606	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C607	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C608	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C609	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C610	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C611	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C612	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C621	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C622	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C624	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C625	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C626	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C627	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C628	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C631	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C632	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C633	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C634	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C635	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C636	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C638	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C639	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C640	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C641	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C642	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C643	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C644	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C645	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C646	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C647	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C648	NCS31HJ-180X	C CAPACITOR	18pF 50V J	
C649	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C653	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C654	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C661	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C671	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C672	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C673	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C677	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C679	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C681	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C682	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C683	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C684	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C685	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C686	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C687	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C688	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C689	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C690	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C691	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C692	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C693	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C694	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C695	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C701	QEZ0631-688	E CAPACITOR	6800uF	
C702	QEZ0631-688	E CAPACITOR	6800uF	
C703	QFZ9076-104Z	MM CAPACITOR	0.1uF	
C704	QFZ9076-104Z	MM CAPACITOR	0.1uF	
C705	QFZ9076-104Z	MM CAPACITOR	0.1uF	
C711	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C712	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C713	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C714	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C715	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C716	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C717	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C718	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C719	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C720	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C721	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C722	NCB21CK-334X	C CAPACITOR	0.33uF 16V K	
C728	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C729	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C730	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C731	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C732	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C735	QFVJ1HJ-103Z	MF CAPACITOR	0.01uF 50V J	
C741	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C742	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C743	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C744	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C745	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C746	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C747	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C751	QETN1AM-476Z	E CAPACITOR	47uF 10V M	
C761	QENC1CM-476Z	BP E CAPACITOR	47uF 16V M	
C762	QENC1CM-476Z	BP E CAPACITOR	47uF 16V M	
C775	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C776	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C777	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C778	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C801	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C802	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C803	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C804	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C805	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C806	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C807	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
C808	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
C809	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C810	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C811	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C812	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C813	NCS31HJ-181X	C CAPACITOR	180pF 50V J	
C814	NCS31HJ-181X	C CAPACITOR	180pF 50V J	
C815	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C816	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C817	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C818	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C819	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C820	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C827	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C828	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C831	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C832	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C833	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C834	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C871	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C872	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C873	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C874	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C875	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	
C876	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C881	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C882	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C901	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C905	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C907	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
C909	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C911	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C913	NCS31HJ-181X	C CAPACITOR	180pF 50V J	
C915	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C917	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C919	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C927	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C931	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C933	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C971	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C973	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C975	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	
C981	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C1301	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1302	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1303	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1304	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1305	QFZ0212-105Z	MF CAPACITOR	1uF	
C1306	QFZ0212-105Z	MF CAPACITOR	1uF	
C1307	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1308	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1313	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1314	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1315	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1316	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1319	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1320	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1325	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1326	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1327	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1328	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1331	QETN2AM-106Z	E CAPACITOR	10uF 100V M	
C1332	QETN2AM-106Z	E CAPACITOR	10uF 100V M	
C1351	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1352	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1353	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1354	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1359	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C1360	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C1361	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1362	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1363	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1364	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1801	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1802	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1803	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1804	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1805	QFZ0212-105Z	MF CAPACITOR	1uF	
C1806	QFZ0212-105Z	MF CAPACITOR	1uF	
C1807	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1808	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1813	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1814	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1815	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1816	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1819	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1820	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1825	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1826	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1827	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1828	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1831	QETN2AM-106Z	E CAPACITOR	10uF 100V M	
C1832	QETN2AM-106Z	E CAPACITOR	10uF 100V M	
C1851	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1852	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1853	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1854	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1859	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C1860	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C1861	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1862	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1863	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1864	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1901	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1903	QEHR1HM-337Z	E CAPACITOR	330uF 50V M	
C1905	QFZ0212-105Z	MF CAPACITOR	1uF	
C1907	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1913	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1915	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1919	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1925	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1927	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1931	QETN2AM-106Z	E CAPACITOR	10uF 100V M	
C1951	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1953	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C1959	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C1961	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1963	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C2500	QEKC1CM-226Z	E CAPACITOR	22uF 16V M	
C2503	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2504	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2507	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
C2508	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
C2512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2513	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C2514	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C2515	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C2516	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C2525	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2526	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2527	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2528	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2531	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2532	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2533	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2534	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2539	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2540	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2551	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2552	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2555	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2556	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2561	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2562	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2563	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2564	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2565	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2566	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2569	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2570	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2575	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2576	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2577	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2578	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2581	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2582	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C2583	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2584	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2585	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2586	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2587	NCS31HJ-560X	C CAPACITOR	56pF 50V J	
C2588	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2589	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2590	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2591	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2592	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2594	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2595	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2597	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2598	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
R301	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R302	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R303	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R304	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R305	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R306	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R307	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R308	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R309	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R310	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R311	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R312	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R313	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R314	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R315	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R316	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R317	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R318	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R319	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R320	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R323	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R324	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R325	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R326	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R333	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R334	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R335	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R336	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R337	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R338	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R339	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R340	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R341	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R342	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R343	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R344	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R345	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R346	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R351	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R352	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R353	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R354	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R355	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R356	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R357	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R358	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R359	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R360	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R361	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R362	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R371	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R372	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R373	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R374	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R375	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R376	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R377	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R378	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R379	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R380	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R381	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R382	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R383	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R384	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R385	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R386	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R387	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R388	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R391	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R392	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R393	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R394	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R600	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R601	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R602	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R603	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R606	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R607	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R608	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R609	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R611	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R612	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R613	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R615	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R617	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R618	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R620	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R621	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R622	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R623	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R625	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R627	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R628	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R631	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R632	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R639	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R640	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R641	NRSA63F-102X	MG RESISTOR	1kΩ 1/16W F	
R642	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R643	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R644	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R645	NRSA63F-102X	MG RESISTOR	1kΩ 1/16W F	
R646	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R647	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J	
R648	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R661	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R662	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R663	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R664	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R668	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R669	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R670	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R671	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R672	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R673	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R674	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R675	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R676	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R677	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R678	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R679	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R680	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R683	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R684	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R687	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R688	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R689	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R691	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R692	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R693	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R694	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R695	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R696	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R697	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R698	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R699	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
⚠ R701	QRJ146J-820X	UNF C RESISTOR	82Ω 1/4W J	
R705	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R706	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R711	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R712	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R713	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R714	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R715	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R718	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R719	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R720	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R721	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R722	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
⚠ R725	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
⚠ R726	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
⚠ R731	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
R735	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R736	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R737	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R738	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R751	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R752	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R753	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R754	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R755	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R756	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R757	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R758	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
⚠ R759	QRK126J-1R0X	UNF C RESISTOR	1Ω 1/2W J	
R761	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R762	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R763	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R764	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R765	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R766	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R771	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R772	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
⚠ R775	QRJ146J-391X	UNF C RESISTOR	390Ω 1/4W J	
⚠ R776	QRJ146J-391X	UNF C RESISTOR	390Ω 1/4W J	
R777	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R781	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R782	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R783	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R784	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R785	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R786	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R801	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R802	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R803	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R804	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R805	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R806	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R807	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R808	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R809	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R810	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R811	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R812	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R813	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R814	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R815	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R816	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R817	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R818	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R819	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R820	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R823	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R824	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R825	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R826	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R833	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R834	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R835	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R836	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R837	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R838	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R839	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R840	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R841	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R842	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R843	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R844	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R845	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R846	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R851	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R852	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R853	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R854	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R855	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R856	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R857	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R858	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R859	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R860	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R861	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R862	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R871	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R872	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R873	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R874	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R875	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R876	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R877	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R878	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R879	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R880	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R881	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R882	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R883	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R884	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R885	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R886	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R887	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R888	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R891	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R892	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R893	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R894	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R901	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R903	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R905	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R907	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R909	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R911	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R913	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R915	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R917	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R919	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R923	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R925	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R933	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R935	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R937	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R939	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R941	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R943	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R945	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R951	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R953	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R955	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R957	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R959	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R961	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R971	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R973	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R974	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R975	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R977	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R979	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R981	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R983	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R985	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R987	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R991	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R993	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1303	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1304	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1307	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1308	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1309	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1310	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1311	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1312	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1313	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1314	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1315	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1316	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1317	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1318	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1319	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1320	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1321	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1322	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1325	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1326	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1329	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1330	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1331	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1332	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1333	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1334	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1335	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1336	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1337	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1338	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1339	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1340	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1341	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1342	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1343	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1344	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
⚠ R1351	QRJ146J-820X	UNF C RESISTOR	82Ω 1/4W J	
⚠ R1353	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
⚠ R1354	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
R1355	NRS016J-103X	MG RESISTOR	10kΩ 1W J	
R1356	NRS016J-103X	MG RESISTOR	10kΩ 1W J	
R1803	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1804	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1807	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1808	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1809	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1810	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1811	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1812	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1813	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1814	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1815	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1816	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1817	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1818	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1819	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1820	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1821	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1822	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1825	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1826	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1829	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1830	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1831	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1832	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1833	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1834	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1835	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1836	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1837	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1838	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1839	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1840	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1841	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1842	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1843	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1844	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
⚠ R1851	QRJ146J-820X	UNF C RESISTOR	82Ω 1/4W J	
⚠ R1853	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
⚠ R1854	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
R1855	NRS016J-103X	MG RESISTOR	10kΩ 1W J	
R1856	NRS016J-103X	MG RESISTOR	10kΩ 1W J	
R1903	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1907	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1909	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1911	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1913	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1915	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1917	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1919	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1921	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1925	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1929	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1931	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1933	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1935	QRM034J-R10	MP RESISTOR	0.1Ω 3W J	
R1937	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1939	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R1941	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1943	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
⚠ R1951	QRJ146J-820X	UNF C RESISTOR	82Ω 1/4W J	
⚠ R1953	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
R1955	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2500	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2501	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2502	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2507	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2508	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2509	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2510	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2512	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2514	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2515	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2516	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2519	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R2520	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R2521	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R2522	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R2525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2527	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2528	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2529	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2530	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2531	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R2532	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R2533	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2536	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2537	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2538	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2550	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2551	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2552	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2553	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2554	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2555	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2556	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2557	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2558	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2560	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R2561	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2562	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2563	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2564	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2565	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R2566	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R2567	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2568	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2569	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R2570	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R2575	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2576	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2577	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2578	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2581	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2582	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2583	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2584	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2585	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R2586	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2587	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2588	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2589	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2590	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2591	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R2592	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2594	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2595	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2596	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2597	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2598	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
L701	QQL28AK-221	CHOKE COIL	220uH K	
L1301	QQL67AM-220	COIL	22uH M	
L1302	QQL67AM-220	COIL	22uH M	
L1303	QQL67AM-220	COIL	22uH M	
L1304	QQL67AM-220	COIL	22uH M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
L1801	QQL67AM-220	COIL	22uH M	
L1802	QQL67AM-220	COIL	22uH M	
L1803	QQL67AM-220	COIL	22uH M	
L1804	QQL67AM-220	COIL	22uH M	
L1901	QQL67AM-220	COIL	22uH M	
L1903	QQL67AM-220	COIL	22uH M	
CN301	QGB1214J3-18S	CONNECTOR	B-B (1-18)	
CN302	QGB1214J3-18S	CONNECTOR	B-B (1-18)	
CN516	QGA2501C1-08	CONNECTOR	W-B (1-8)	
CN519	QGA2501C1-09	CONNECTOR	W-B (1-9)	
CN521	QGB2510J1-10	CONNECTOR	B-B (1-10)	
CN522	QGF1205C1-11	CONNECTOR	FFC/FPC (1-11)	
CN687	QGF1205C1-06	CONNECTOR	FFC/FPC (1-6)	
CN702	QGA3901C1-03	CONNECTOR	W-B (1-3)	
CN703	QGA2501C1-03	CONNECTOR	W-B (1-3)	
CN712	QGD2501C1-03Z	CONNECTOR	(1-3)	
CN713	QJK019-030703	SIN CR C-B WIRE		
CN725	QJK025-060801	SIN CR C-B WIRE		
CN801	QGB1214J3-18S	CONNECTOR	B-B (1-18)	
CN802	QGB1214J3-18S	CONNECTOR	B-B (1-18)	
CN901	QGB1214J3-18S	CONNECTOR	B-B (1-18)	
EP701	QNZ0136-001Z	EARTH PLATE		
EP711	QNZ0136-001Z	EARTH PLATE		
FS751	LV30225-0N1A	SPECER		
FS752	LV30225-0N1A	SPECER		
FW701	QUM213-08DGZ3	PARA RIBON WIRE		
HS722	E70306-001	HEAT SINK		
J601	QNN0347-001	SURROUND JACK		
K601	NQR0269-004X	FERRITE BEADS		
⚠ RY301	QSK0127-001	RELAY		
RY701	QSK0127-002	RELAY		
⚠ RY801	QSK0127-001	RELAY		
⚠ RY901	QSK0127-001	RELAY		
ST701	QNB0173-001	SPEAKER TERMINA		
UN661	GP1FA352RZ	OPT RECEIVER		
UN662	GP1FA352RZ	OPT RECEIVER		
X631	QAX0722-001Z	CRYSTAL	24.576MHz	
X671	QAX0719-001Z	C RESONATOR	6.144MHz	
X711	QAX0734-001	C RESONATOR	400.00kHz	
X712	QAX0735-001	C RESONATOR	420.00kHz	

Input board

Block No. [0][3][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC501	MN101C49GMH	IC		
IC502	BD3842FS-X	IC		
IC503	BD3813KS	IC		
IC504	HA17558AF-X	IC		
IC505	SAA6588T/V2-X	IC		
IC506	IC-PST9139-T	IC		
IC511	NJM2246M-X	IC		
IC512	NJM2246M-X	IC		
IC513	NJM2246M-X	IC		
IC514	BA7625	IC	Video selector	
IC515	MM74HC4053SJ-X	IC		
IC571	HA17558AF-X	IC		
Q501	2SC3576-JVC-T	TRANSISTOR		
Q502	2SC3576-JVC-T	TRANSISTOR		
Q503	KRA104S-X	DIGI TRANSISTOR		
Q504	KTC3199/GL/-T	TRANSISTOR		
Q505	KTC3199/GL/-T	TRANSISTOR		
Q506	KTC3199/GL/-T	TRANSISTOR		
Q507	KTC3199/GL/-T	TRANSISTOR		
Q508	KTC3199/GL/-T	TRANSISTOR		
Q509	KTC3199/GL/-T	TRANSISTOR		
Q510	KRC102S-X	DIGI TRANSISTOR		
Q511	KRA104S-X	DIGI TRANSISTOR		
Q512	KRA104S-X	DIGI TRANSISTOR		
Q513	2SC3576-JVC-T	TRANSISTOR		
Q514	2SC3576-JVC-T	TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q515	2SC3576-JVC-T	TRANSISTOR		
Q516	2SC3576-JVC-T	TRANSISTOR		
Q517	2SC3576-JVC-T	TRANSISTOR		
Q518	2SC3576-JVC-T	TRANSISTOR		
Q519	2SC3576-JVC-T	TRANSISTOR		
Q521	2SC3576-JVC-T	TRANSISTOR		
Q522	2SC3576-JVC-T	TRANSISTOR		
Q523	KRA104S-X	DIGI TRANSISTOR		
Q525	KTC3199/GL/-T	TRANSISTOR		
Q526	KTC3199/GL/-T	TRANSISTOR		
Q527	KTC3199/GL/-T	TRANSISTOR		
⚠ Q531	2SD2395/EF/	TRANTRANSISTOR		
Q532	KRA102S-X	DIGI TRANSISTOR		
Q533	KRC102S-X	DIGI TRANSISTOR		
Q534	KRC102S-X	DIGI TRANSISTOR		
Q535	KRC102S-X	DIGI TRANSISTOR		
Q536	KRC102S-X	DIGI TRANSISTOR		
Q541	KRA102S-X	DIGI TRANSISTOR		
Q542	2SB709A/QR/-X	TRANSISTOR		
Q543	2SB709A/QR/-X	TRANSISTOR		
Q544	2SB709A/QR/-X	TRANSISTOR		
Q3501	KTC3199/GL/-T	TRANSISTOR		
Q3502	KRC111S-X	TRANSISTOR		
Q3503	KTC3199/GL/-T	TRANSISTOR		
Q3504	KRC111S-X	TRANSISTOR		
Q3505	KTC3199/GL/-T	TRANSISTOR		
Q3506	KRC111S-X	TRANSISTOR		
Q3507	KTA1267/YG/-T	TRANSISTOR		
Q3508	KTA1267/YG/-T	TRANSISTOR		
Q3511	KTC3199/GL/-T	TRANSISTOR		
Q3512	KTC3199/GL/-T	TRANSISTOR		
Q3513	KTC3199/GL/-T	TRANSISTOR		
Q3514	KRC102S-X	DIGI TRANSISTOR		
Q3515	KRC102S-X	DIGI TRANSISTOR		
Q7501	2SK301/QR/-T	FET		
Q7502	2SK301/QR/-T	FET		
Q7503	2SK301/QR/-T	FET		
Q7504	2SK301/QR/-T	FET		
D501	UDZS13B-X	Z DIODE		
D502	UDZS13B-X	Z DIODE		
D503	UDZS13B-X	Z DIODE		
D504	UDZS13B-X	Z DIODE		
D505	UDZS13B-X	Z DIODE		
D506	UDZS13B-X	Z DIODE		
D507	UDZS13B-X	Z DIODE		
D508	UDZS13B-X	Z DIODE		
D509	MA111-X	SI DIODE		
D510	MA111-X	SI DIODE		
D515	MA111-X	SI DIODE		
D516	UDZS13B-X	Z DIODE		
D517	UDZS10B-X	Z DIODE		
D518	UDZS7.5B-X	Z DIODE		
D554	MA111-X	SI DIODE		
D556	MA111-X	SI DIODE		
D3501	UDZS13B-X	Z DIODE		
D3502	UDZS13B-X	Z DIODE		
D3503	UDZS13B-X	Z DIODE		
D3504	UDZS13B-X	Z DIODE		
D3505	UDZS12B-X	Z DIODE		
C231	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C232	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C233	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C234	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C501	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C502	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C503	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C504	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C505	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C506	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C507	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C508	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C509	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C510	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C511	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C512	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C513	NCS31HJ-331X	C CAPACITOR	330pF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C514	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C515	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C516	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C517	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C518	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C519	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C520	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C521	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C522	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C523	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C524	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C525	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C526	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	
C527	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C528	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C529	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C530	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	
C531	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C532	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C533	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C534	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C535	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C536	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C537	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C538	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C539	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C540	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C541	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C542	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C543	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C544	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C545	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C546	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C547	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C548	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C549	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C550	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C551	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C552	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C553	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C554	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C555	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C556	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C557	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C558	QEKC1CM-106Z	E CAPACITOR	10uF 16V M	
C559	QEKC1CM-226Z	E CAPACITOR	22uF 16V M	
C560	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C561	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C562	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C563	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C564	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C565	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C566	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C567	NCS31HJ-820X	C CAPACITOR	82pF 50V J	
C568	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C569	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C570	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C571	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C572	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	
C573	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C574	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C575	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C578	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C581	QEKC1CM-106Z	E CAPACITOR	10uF 16V M	
C583	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C585	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C587	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C591	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C592	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C593	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C594	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C595	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C596	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1571	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1572	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1573	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1574	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1575	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C1576	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C1577	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C1578	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C3501	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C3502	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C3503	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C3504	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C3505	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3506	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3507	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3508	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3509	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C3510	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3511	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C3512	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C3513	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C3514	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C3515	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C3516	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3517	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C3518	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3519	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C3520	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C3521	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3522	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C3523	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3524	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3525	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3531	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C3532	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C3533	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C3534	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3535	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3536	QEKC1EM-476Z	E CAPACITOR	47uF 25V M	
R261	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R262	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R501	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R502	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R503	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R504	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R505	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R506	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R507	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R508	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R509	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R510	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R511	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R513	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R514	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R515	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R516	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R517	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R518	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R519	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R520	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R521	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R522	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R523	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R524	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R525	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R527	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R528	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R529	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R530	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R531	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R532	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R533	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R534	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R535	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R537	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R538	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R539	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R540	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R541	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R542	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R543	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R544	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R545	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R546	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R547	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R548	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R549	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R550	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R551	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R552	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R553	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R554	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R555	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R556	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R557	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R558	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R559	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R560	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R561	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R562	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R563	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R564	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R565	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R566	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R567	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R568	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R569	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R570	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R571	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R572	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R573	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R574	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R575	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R576	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R577	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R579	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R580	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R581	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R582	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R583	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R584	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R585	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R586	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R587	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R588	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R589	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R590	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R591	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R593	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R594	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R595	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R596	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R597	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1501	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1502	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1506	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1507	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1508	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1509	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1510	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1512	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1513	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1514	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1515	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1517	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1519	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1520	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1521	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R1522	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1523	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1524	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1525	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1526	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1527	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1529	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1530	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1531	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1532	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1533	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1534	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R1535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1536	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1541	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1543	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1544	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1545	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1548	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1549	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1550	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1551	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1552	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1553	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1554	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1555	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1556	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1557	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1558	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1559	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
⚠ R1561	QRZ9005-100X	FUSI RESISTOR	10Ω	
⚠ R1562	QRJ146J-561X	UNF C RESISTOR	560Ω 1/4W J	
R1565	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1567	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1571	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1572	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1573	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R1574	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R1575	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1576	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1577	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1578	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1581	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1582	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1591	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1592	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1593	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1594	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3501	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3502	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3503	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3504	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3505	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3506	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3507	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3508	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3509	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3510	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3511	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3512	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3513	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3514	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3515	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3516	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3517	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3519	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3522	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3523	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3524	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3525	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R3526	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3527	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R3528	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3529	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R3530	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3531	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3532	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3533	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3534	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3535	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3536	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3537	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3538	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3539	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R3540	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R3541	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R3542	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R3543	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R3544	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R3545	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
⚠ R3547	QRJ146J-391X	UNF C RESISTOR	390Ω 1/4W J	
R3551	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3552	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3553	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3554	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3555	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3556	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R3557	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R3558	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3559	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3560	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3561	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3562	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3563	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3564	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3565	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3566	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3567	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
⚠ R3571	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω 1/4W J	
⚠ R3572	QRZ9005-100X	FUSI RESISTOR	10Ω	
R7501	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7502	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7503	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7504	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7506	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7507	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7509	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R7510	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R7511	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R7512	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
CN451	QGA2001C1-09	CONNECTOR	W-B (1-9)	
CN501	QGB2510J1-10	CONNECTOR	B-B (1-10)	
CN502	QGF1205C1-11	CONNECTOR	FFC/FPC (1-11)	
CN503	QGF1205C1-15	CONNECTOR	FFC/FPC (1-15)	
CN504	QGF1205C1-19	CONNECTOR	FFC/FPC (1-19)	
CN505	QGF1205C1-11	CONNECTOR	FFC/FPC (1-11)	
CN506	WJP0044-001A	E-SH C WIRE C-B		
CN509	WJK0110-002A	E-SI C WIRE C-B		
CN513	QGF1205C1-15	CONNECTOR	FFC/FPC (1-15)	
CN514	QGF1205C1-19	CONNECTOR	FFC/FPC (1-19)	
CN525	QGA2501C1-06	CONNECTOR	W-B (1-6)	
CN530	QJK025-081603	SIN CR C-B WIRE		
CN540	QJK025-071402	SIN CR C-B WIRE		
CN571	QGB2510K1-10	CONNECTOR	B-B (1-10)	
CN572	QGB2510K1-10	CONNECTOR	B-B (1-10)	
EP501	QNZ0136-001Z	EARTH PLATE		
EP502	QNZ0136-001Z	EARTH PLATE		
FL501	QQR0590-001	FILTER		
FL502	QQR0590-001	FILTER		
FW206	QUM214-34DGZ3	PARA RIBON WIRE		
FW501	QUM213-16DGZ3	PARA RIBON WIRE		
J201	QNS0204-001	PHONE JACK		
J501	QNZ0516-001	RGB CONNECTOR		
J502	QNZ0516-001	RGB CONNECTOR		
J503	QNN0544-001	SURROUND JACK		
J504	QNN0545-002	SURROUND JACK		
J3501	QNZ0516-001	RGB CONNECTOR		
J3502	QNZ0516-001	RGB CONNECTOR		
X501	QAX0246-001Z	C RESONATOR	8.00MHz	
X502	QAX0263-001Z	CRYSTAL	4.332MHz	

Power amp. board

Block No. [0][4][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q115	IRF530NS-W	TRANSISTOR		
Q116	IRF530NS-W	TRANSISTOR		
Q117	IRF530NS-W	TRANSISTOR		
Q118	IRF530NS-W	TRANSISTOR		
C111	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C112	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C113	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C114	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C115	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C116	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C119	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C120	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C121	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C122	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C123	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C124	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
R129	NRSA02J-5R6X	MG RESISTOR	5.6Ω 1/10W J	
R130	NRSA02J-5R6X	MG RESISTOR	5.6Ω 1/10W J	
R131	NRSA02J-5R6X	MG RESISTOR	5.6Ω 1/10W J	
R132	NRSA02J-5R6X	MG RESISTOR	5.6Ω 1/10W J	
R133	NRS125J-100X	MG RESISTOR	10Ω 1/2W J	
R134	NRS125J-100X	MG RESISTOR	10Ω 1/2W J	
R135	NRS125J-100X	MG RESISTOR	10Ω 1/2W J	
R136	NRS125J-100X	MG RESISTOR	10Ω 1/2W J	
R150	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R167	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R168	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R169	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R170	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
CN11	QGB1214K3-18W	CONNECTOR	B-B (1-18)	
CN12	QGB2027L1-14X	CONNECTOR	B-B (1-14)	

Power amp. driver board

Block No. [0][5][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC11	MM74HC00SJ-X	IC		
IC12	MM74HC00SJ-X	IC		
Q101	2SC2713/L/-X	TRANSISTOR		
Q102	2SC2713/L/-X	TRANSISTOR		
Q103	2SA1162/G/-X	TRANSISTOR		
Q104	2SA1162/G/-X	TRANSISTOR		
Q105	2SC2712/G/-X	TRANSISTOR		
Q106	2SC2712/G/-X	TRANSISTOR		
Q107	2SC2712/G/-X	TRANSISTOR		
Q108	2SC2712/G/-X	TRANSISTOR		
Q109	2SA1162/G/-X	TRANSISTOR		
Q110	2SA1162/G/-X	TRANSISTOR		
Q111	2SC2712/G/-X	TRANSISTOR		
Q112	2SC2712/G/-X	TRANSISTOR		
Q113	2SA1162/G/-X	TRANSISTOR		
Q114	2SA1162/G/-X	TRANSISTOR		
Q119	KRC102S-X	DIGI TRANSISTOR		
D101	1SS355-X	SI DIODE		
D102	1SS355-X	SI DIODE		
D103	1SS355-X	SI DIODE		
D104	1SS355-X	SI DIODE		
D105	1SS244-T2	SI DIODE		
D106	1SS244-T2	SI DIODE		
D107	1SS355-X	SI DIODE		
D108	1SS355-X	SI DIODE		
D109	1SS355-X	SI DIODE		
D110	1SS355-X	SI DIODE		
D111	1SS244-T2	SI DIODE		

⚠ Symbol No.	Part No.	Part Name	Description	Local
D112	1SS244-T2	SI DIODE		
D113	1SS355-X	SI DIODE		
D114	1SS355-X	SI DIODE		
D121	1SS355-X	SI DIODE		
C101	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C102	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C103	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C104	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C105	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C106	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C107	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C108	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C109	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C110	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C117	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C118	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C131	NEA71CM-107X	E CAPACITOR	100uF 16V M	
C132	NEA71CM-107X	E CAPACITOR	100uF 16V M	
C133	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C134	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
R101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R102	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R103	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R104	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R105	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R106	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R109	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R111	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R112	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R113	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R114	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R116	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R117	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R118	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R121	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R122	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R123	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R124	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R125	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R126	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R127	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R128	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R171	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
CN22	QGB2027M9-14	CONNECTOR	B-B (1-14)	

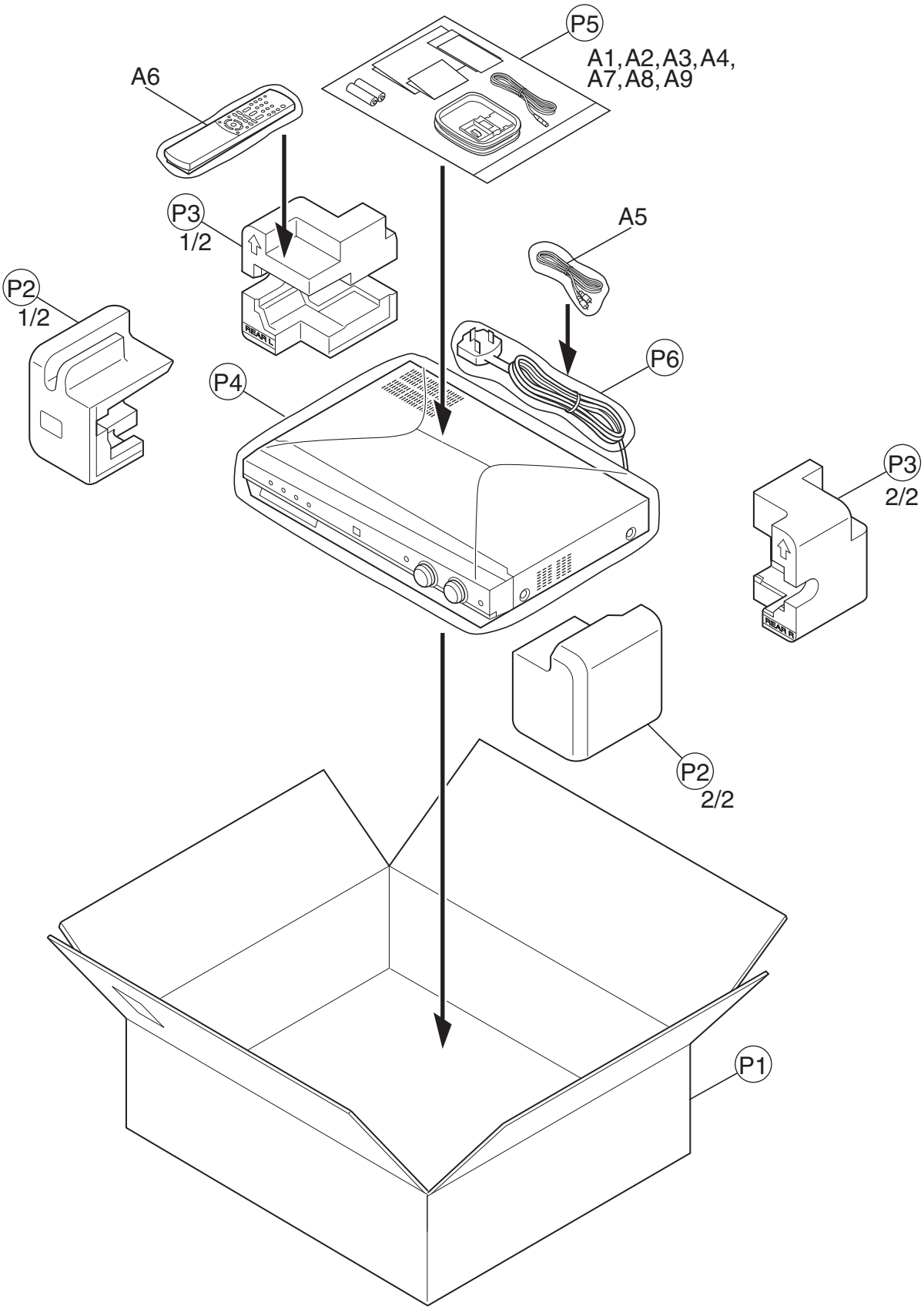
Support board

Block No. [0][6][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
D1701	1SS133-T2	DIODE		
D1702	1SS133-T2	DIODE		
D1703	1SS133-T2	DIODE		
D1704	MTZJ8.2C-T2	Z DIODE		
CN751	WJZ0116-001A	E-HARNESS ASSY		

Packing materials and accessories parts list

Block No. M 3 M M



Packing and accessories

Block No. [M][3][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
A 1	LVT1002-002E	INST BOOK	GER,FRE,DUT	ES1SL E
A 1	LVT1002-001E	INST BOOK	ENG	ES1SL B
A 1	LVT1002-003E	INST BOOK	SWE,FIN,DAN,GER,FRE,SPA,ITA	ES1SL EN
A 2	QAL0457-001	ANT.WIRE		
A 3	QAL0476-001	AM LOOP ANT		
A 4	BT-54013-6	WARRANTY CARD		
A 5	LV42656-001A	SYSTEM CABLE		
A 6	RM-SQPES1R	REMOCON		
A 7	----------	BATTERY	(x2)	
A 8	LV43594-004A	CAUTION SHEET		
A 9	VNA3000-204	REGISTER CARD		ES1SL B
P 1	LV34165-001A	CARTON BOX		
P 2	LV21466-001A	CUSHION(FRONT)		
P 3	LV21467-001A	CUSHION(REAR)		
P 4	QPC06507015P	POLY BAG	65cm x 70cm	
P 5	QPA02503505P	POLY BAG	25cm x 35cm	
P 6	QPA01203505	ENVELOPE	12cm x 35cm	ES1SL B

JVC

SCHEMATIC DIAGRAMS

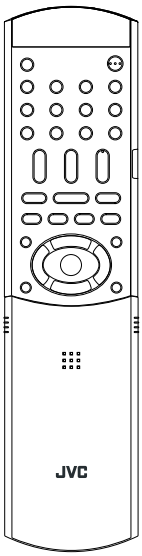
HOME CINEMA CONTROL CENTER

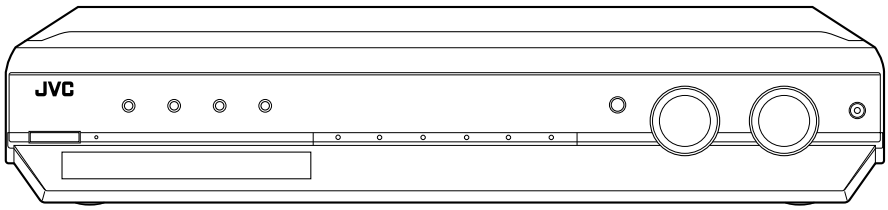
RX-ES1SL

CD-ROM No.SML200307

Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe





DOLBY DIGITAL PRO LOGIC II

DIGITAL dts SURROUND

R·D·S

Contents

Block diagram ---------- 2-1
Standard schematic diagrams ---------- 2-2
Printed circuit boards ---------- 2-10 to 16

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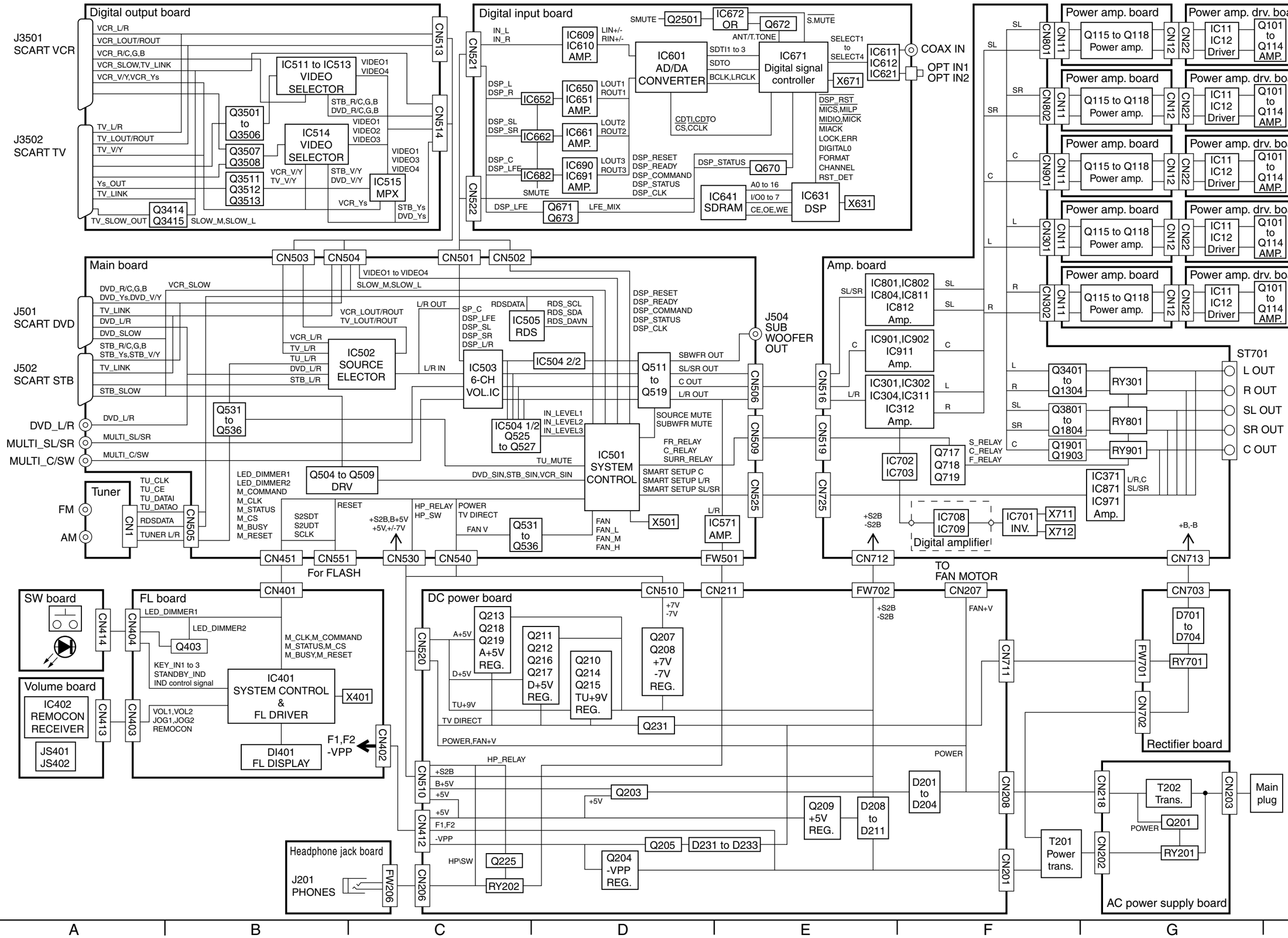
No.22070SCH
2003/7

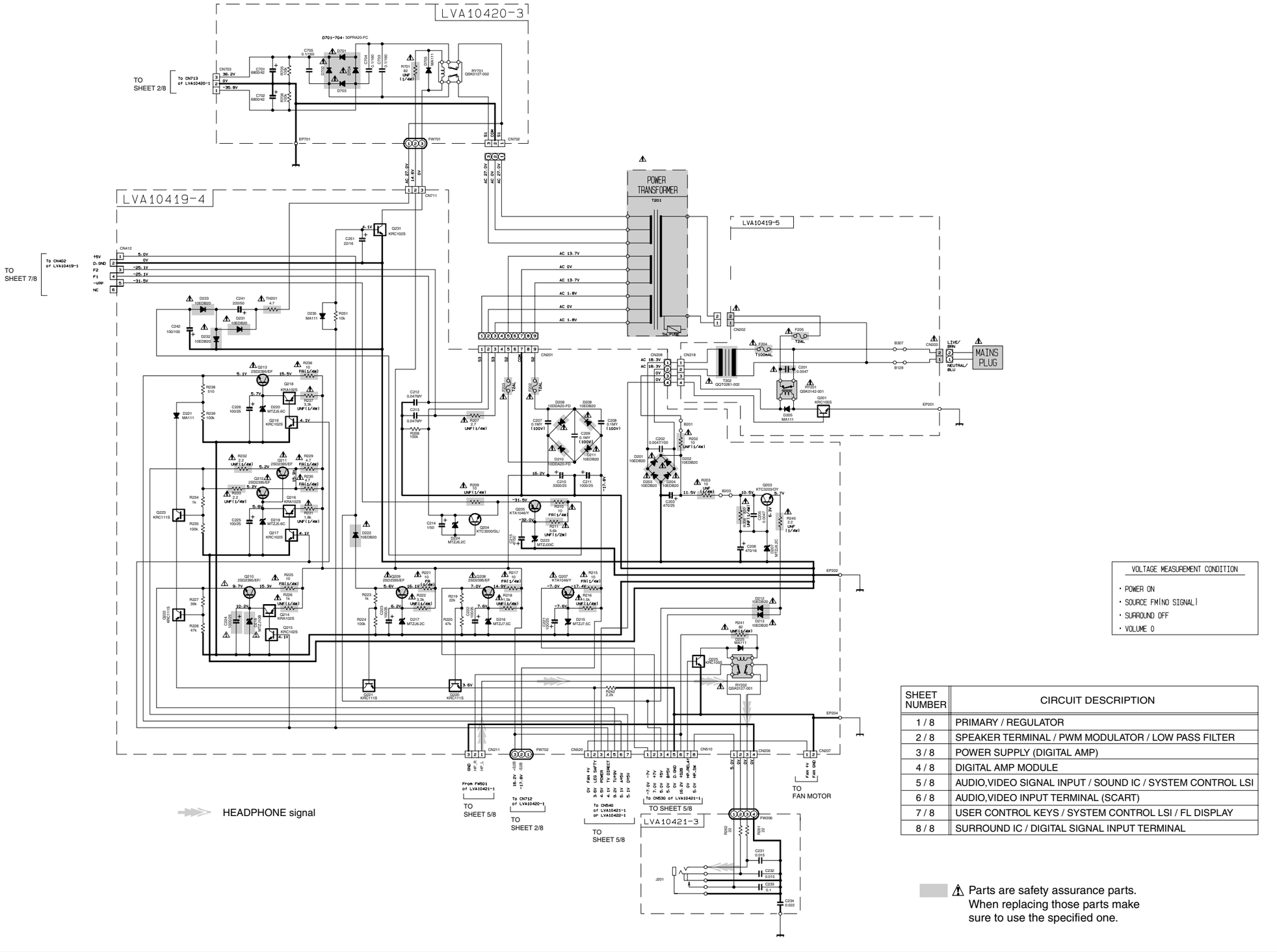
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (⬤) or identified by the "⚠" mark nearby are critical for safety.
(This regulation does not correspond to J and C version.)

Block diagram



Standard schematic diagrams

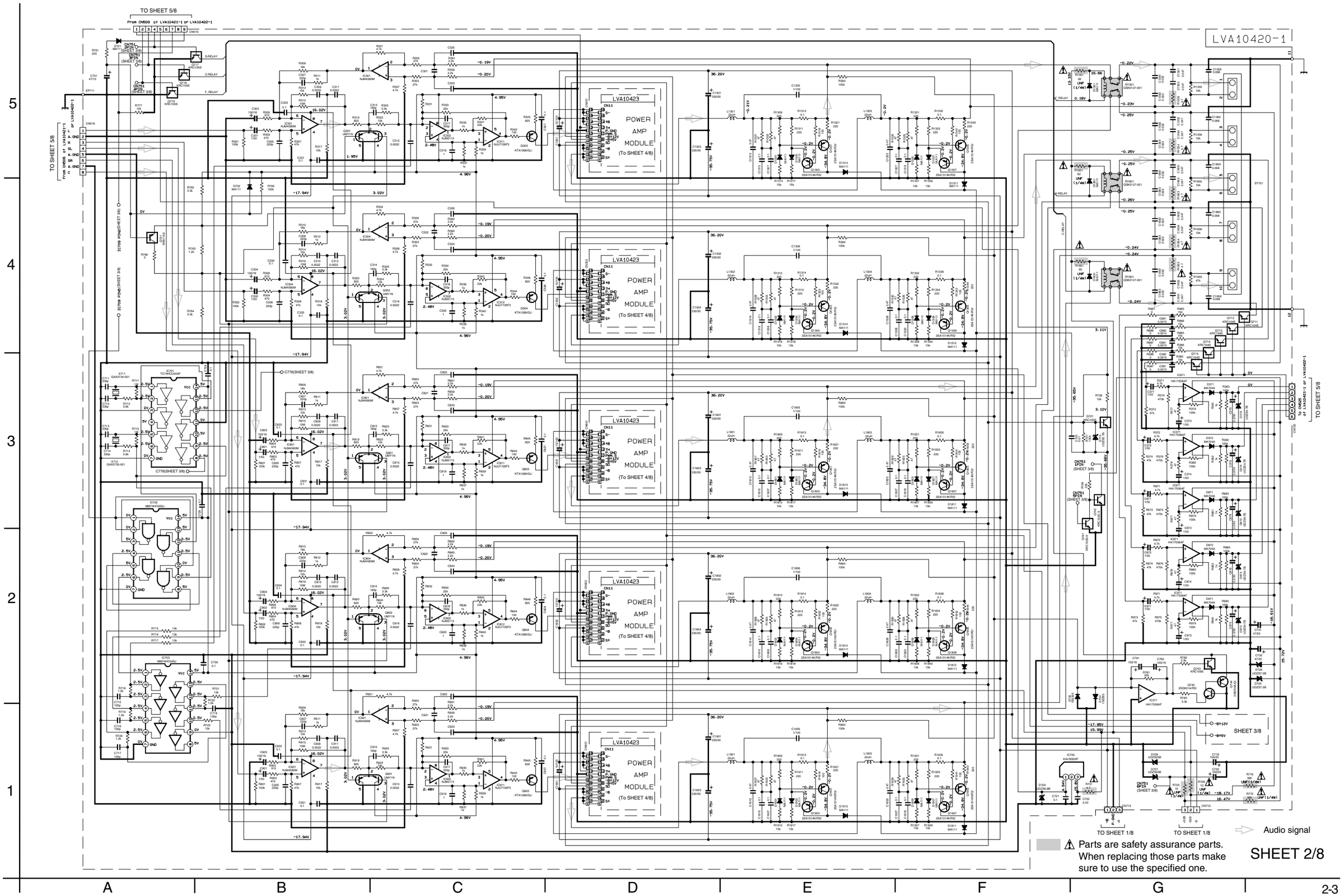
■ Primary / Regulator section



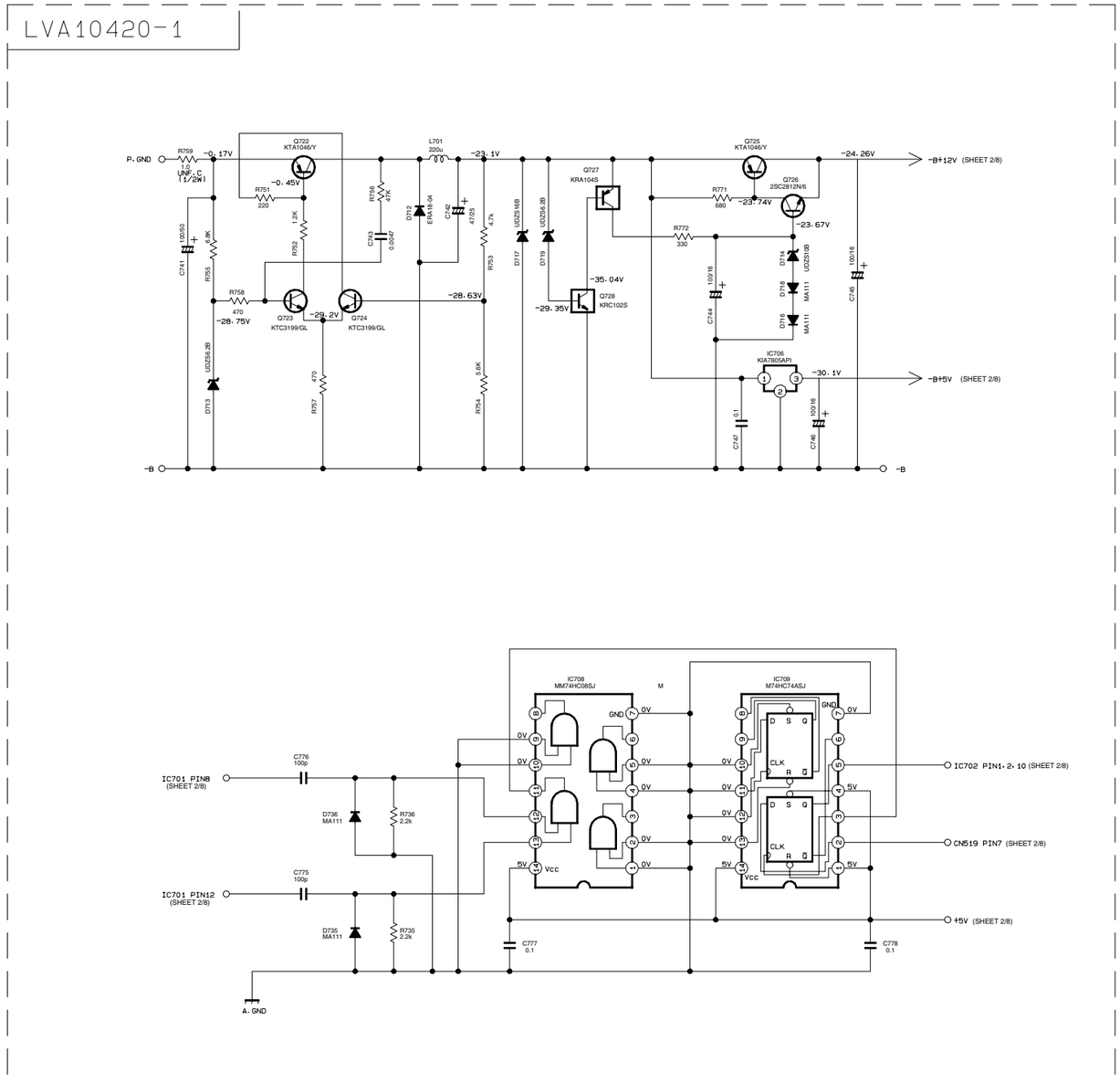
SHEET NUMBER	CIRCUIT DESCRIPTION
1 / 8	PRIMARY / REGULATOR
2 / 8	SPEAKER TERMINAL / PWM MODULATOR / LOW PASS FILTER
3 / 8	POWER SUPPLY (DIGITAL AMP)
4 / 8	DIGITAL AMP MODULE
5 / 8	AUDIO,VIDEO SIGNAL INPUT / SOUND IC / SYSTEM CONTROL LSI
6 / 8	AUDIO,VIDEO INPUT TERMINAL (SCART)
7 / 8	USER CONTROL KEYS / SYSTEM CONTROL LSI / FL DISPLAY
8 / 8	SURROUND IC / DIGITAL SIGNAL INPUT TERMINAL

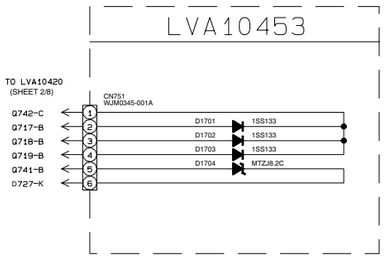
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■ Speaker terminal / PWM modulator / Low pass filter section

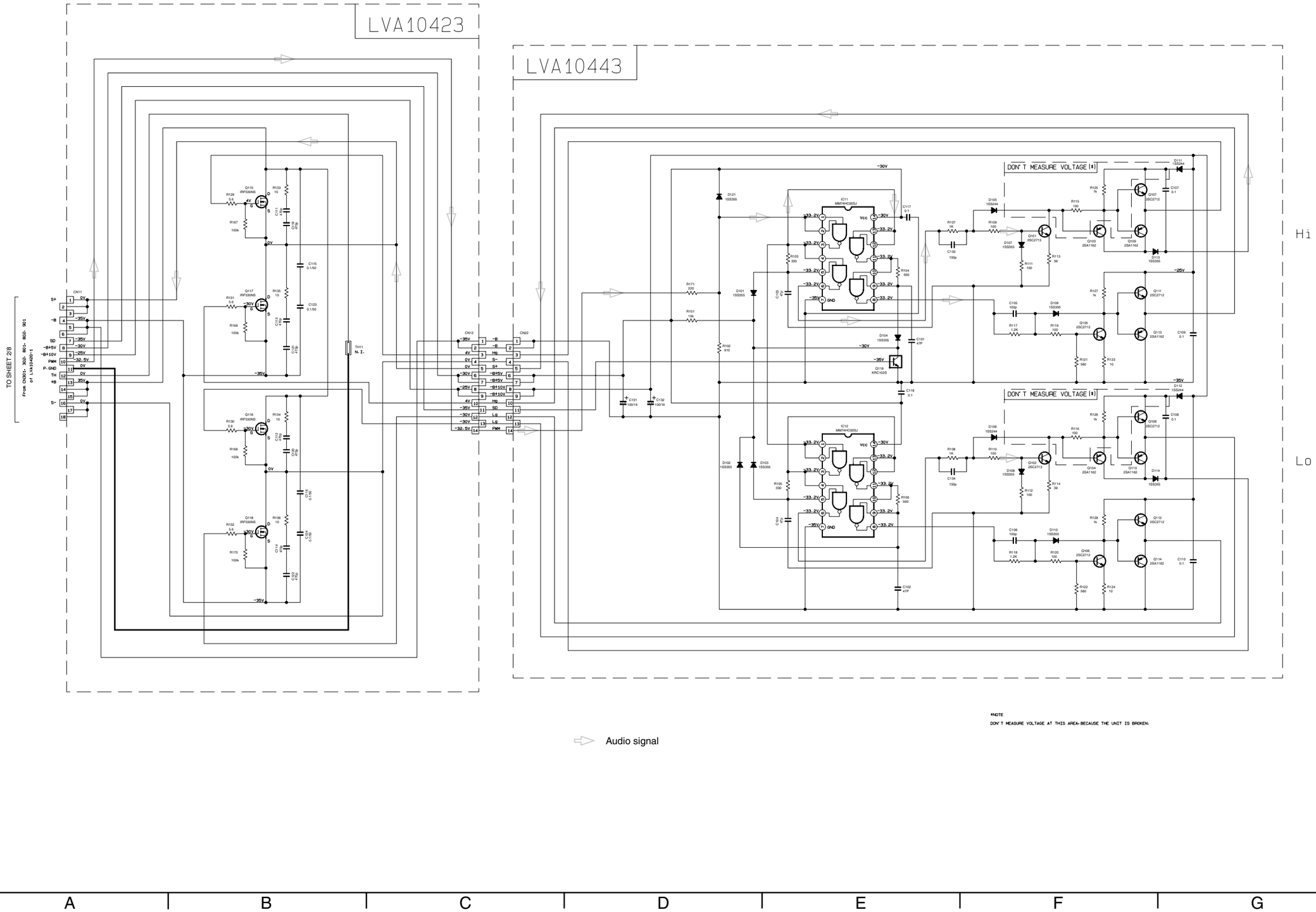


■ Power supply (Digital amplifier) section



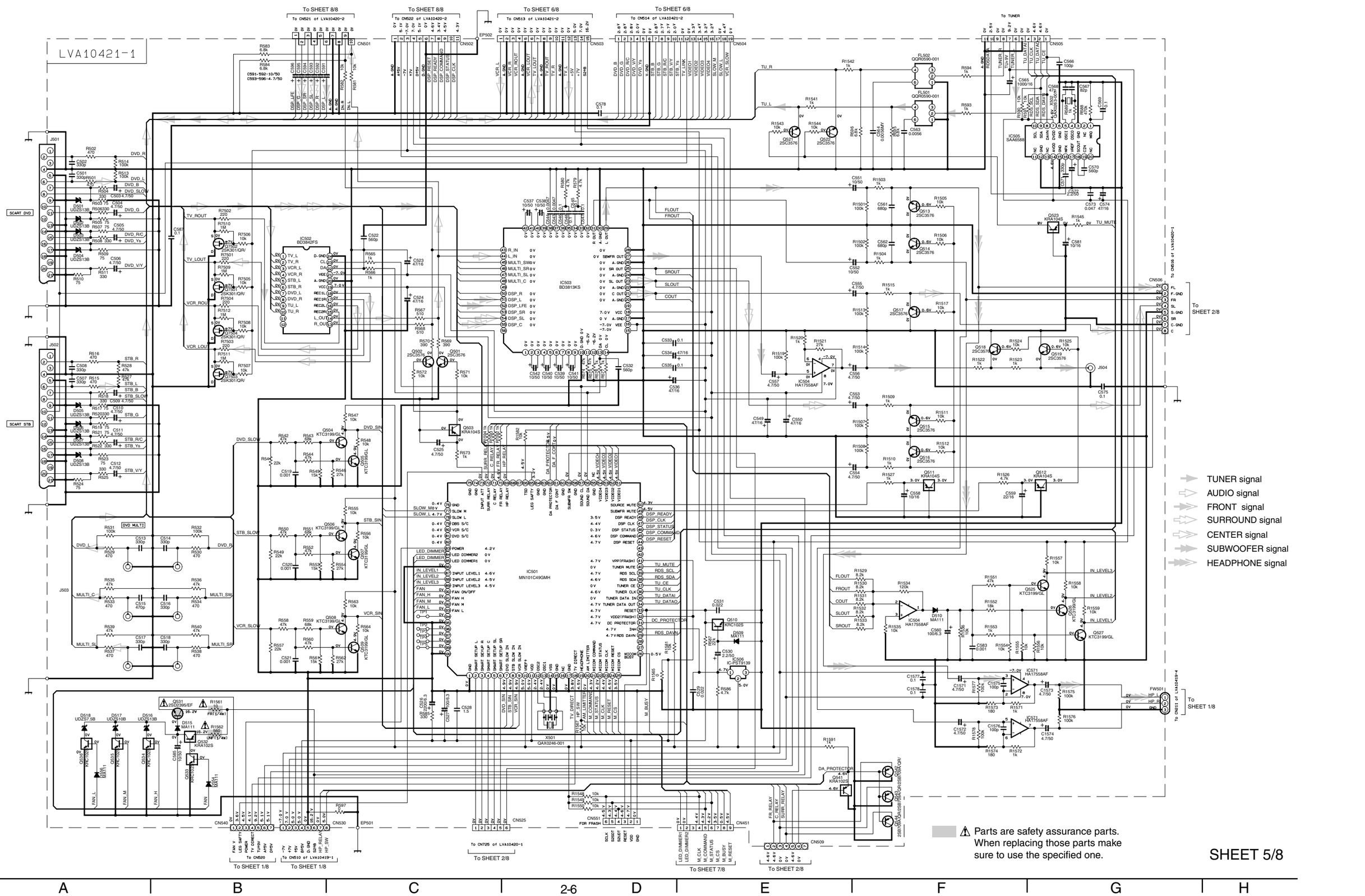


■ Digital amplifier module section

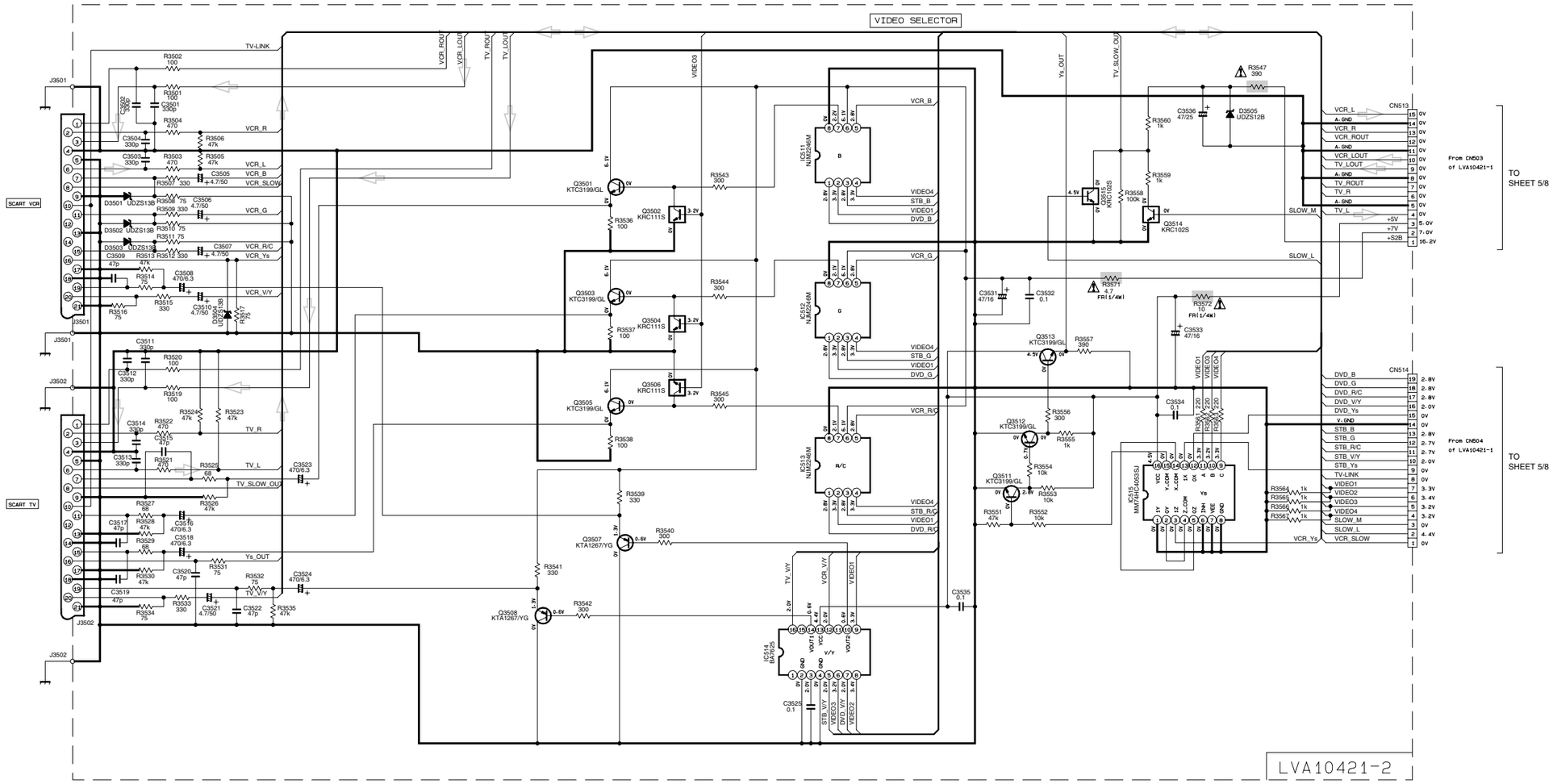


SHEET 4/8

■ Audio, video signal input / Sound IC / System control LSI section



■ Audio, video input terminal (SCART) section



Audio signal

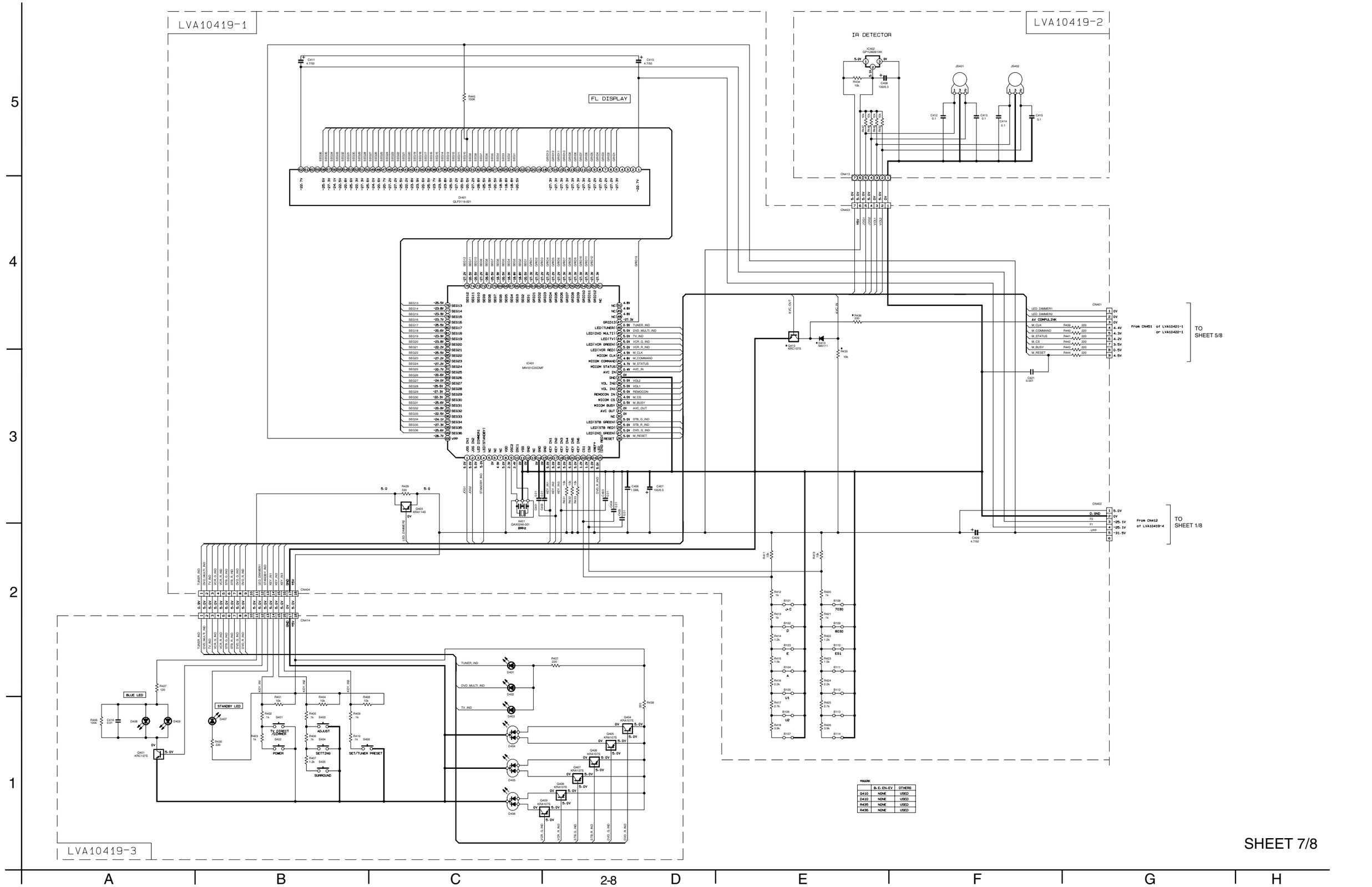
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

CONTROL LOGIC

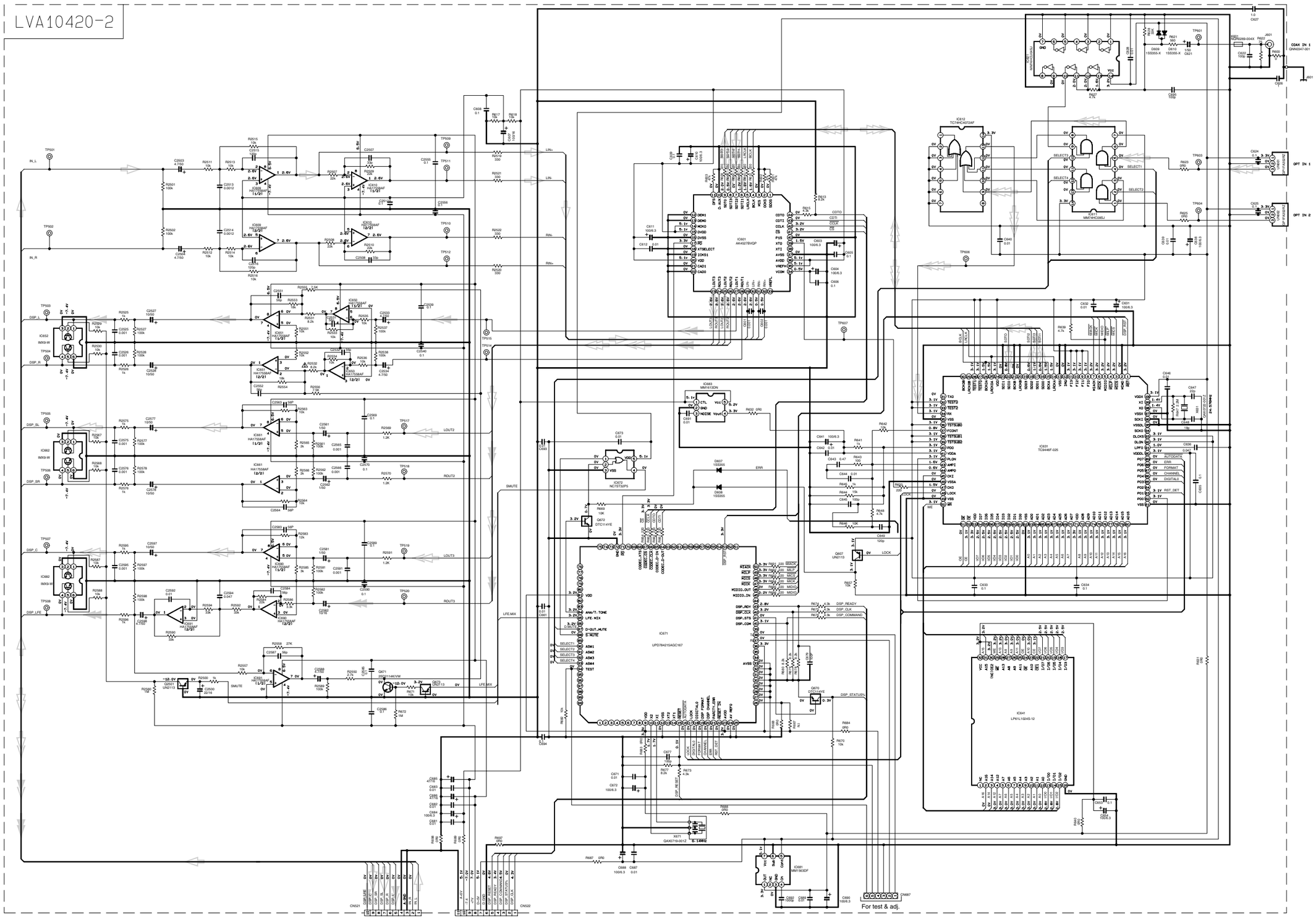
SOURCE	VIDEO1	VIDEO2	VIDEO3	VIDEO4
DVD MULTI	L	H	L	L
DVD	L	H	L	L
STB	H	H	L	L
VCR	H	L	L	H
TV	L	L	H	L
FM/AM	H	H	H	H

SHEET 6/8

■ User control keys / System control LSI / FL display section



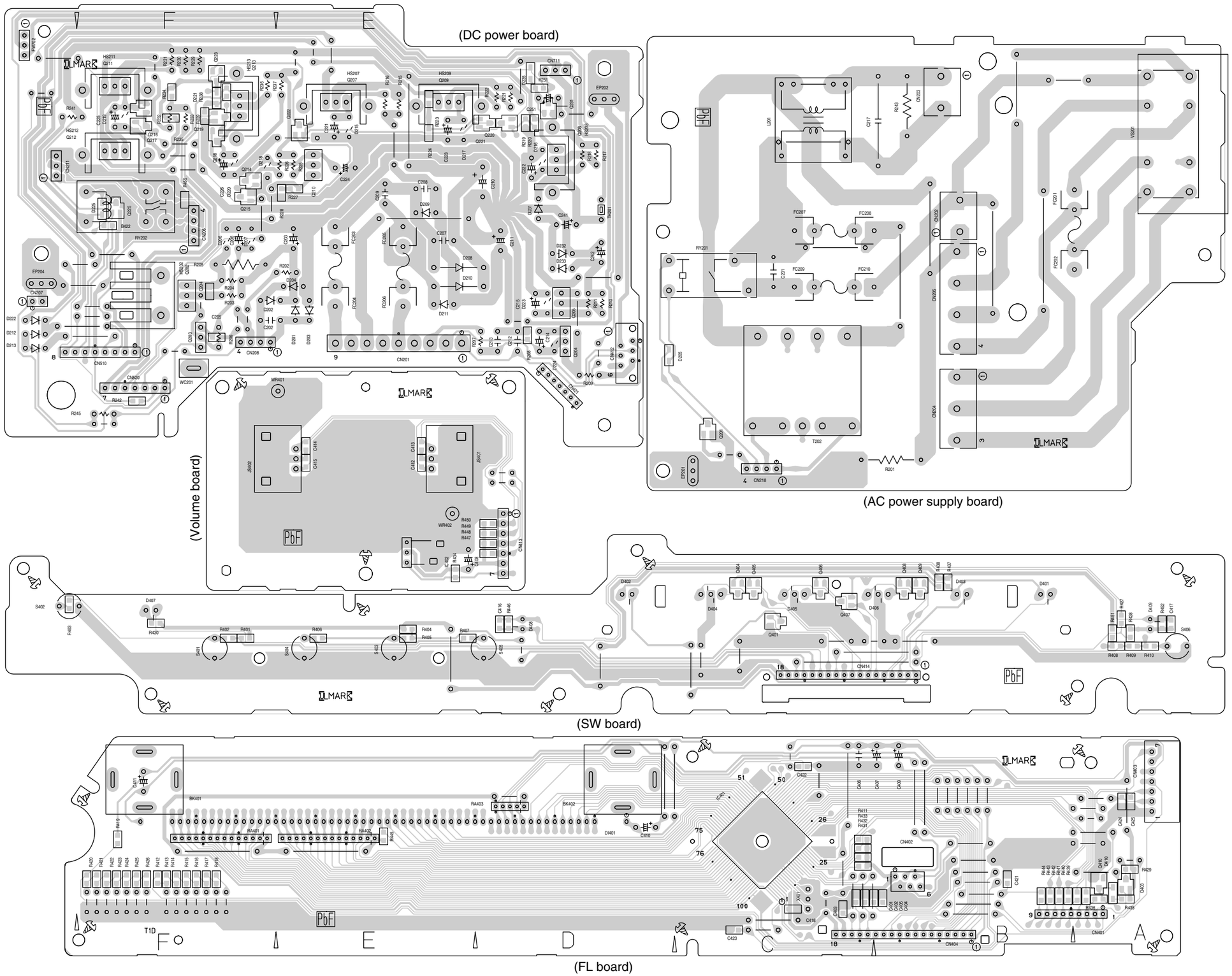
■ Surround IC / Digital signal input terminal



SHEET 8/8

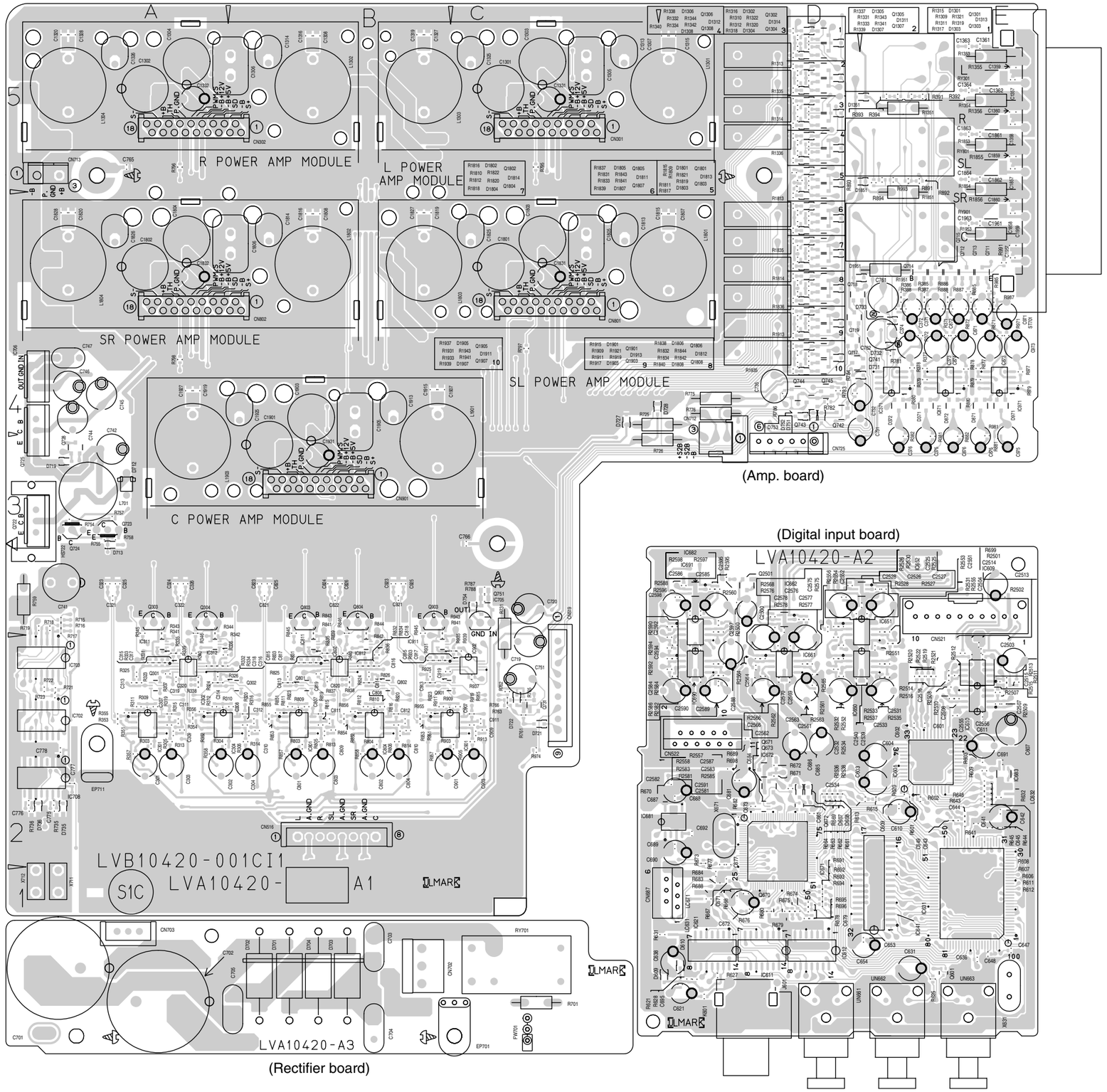
Printed circuit boards

■ Front board



■ Amp. board

Forward side



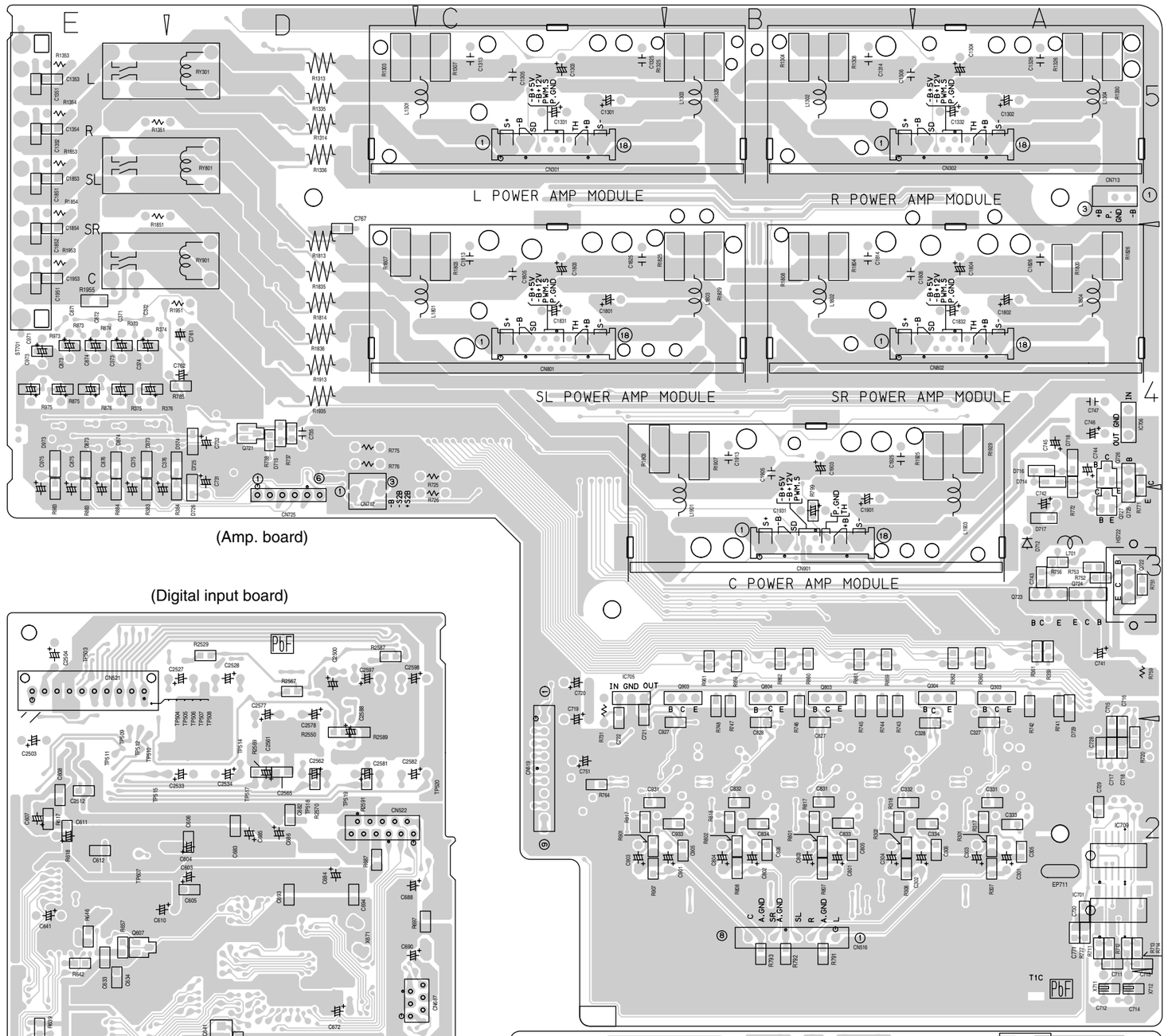
(Amp. board)

(Digital input board)

(Rectifier board)

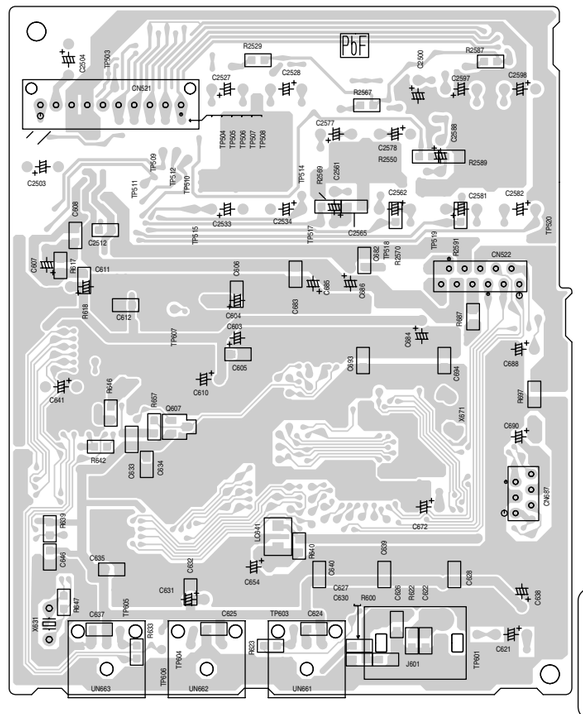
■ Amp. board

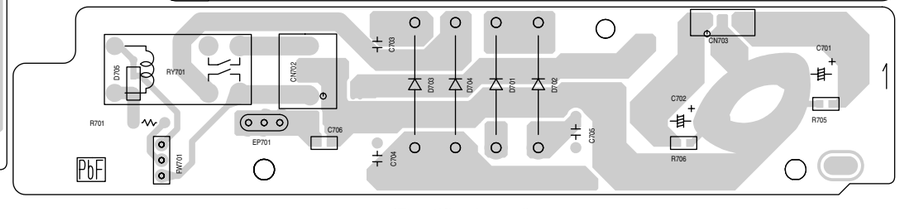
Reverse side



(Amp. board)

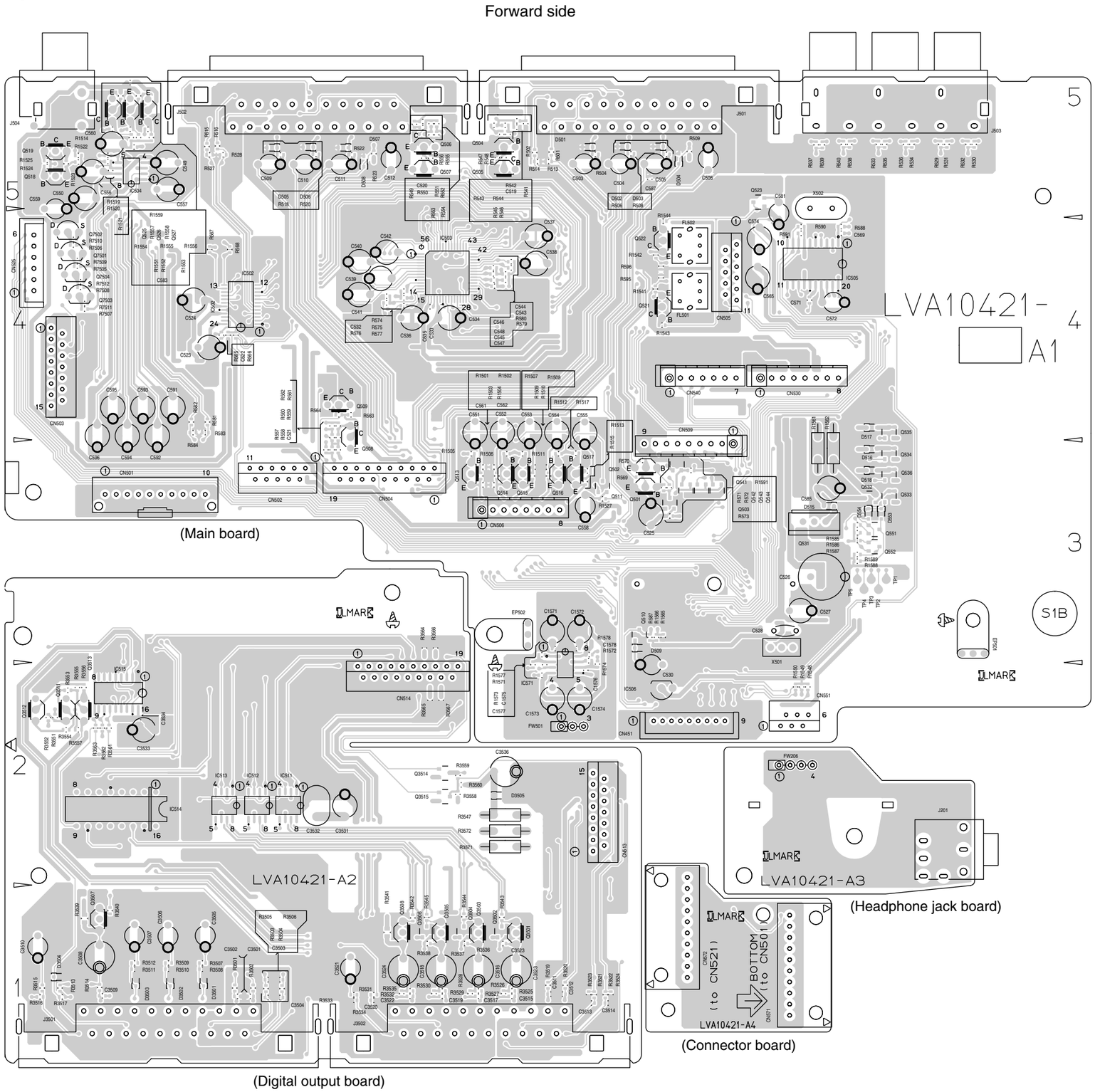
(Digital input board)





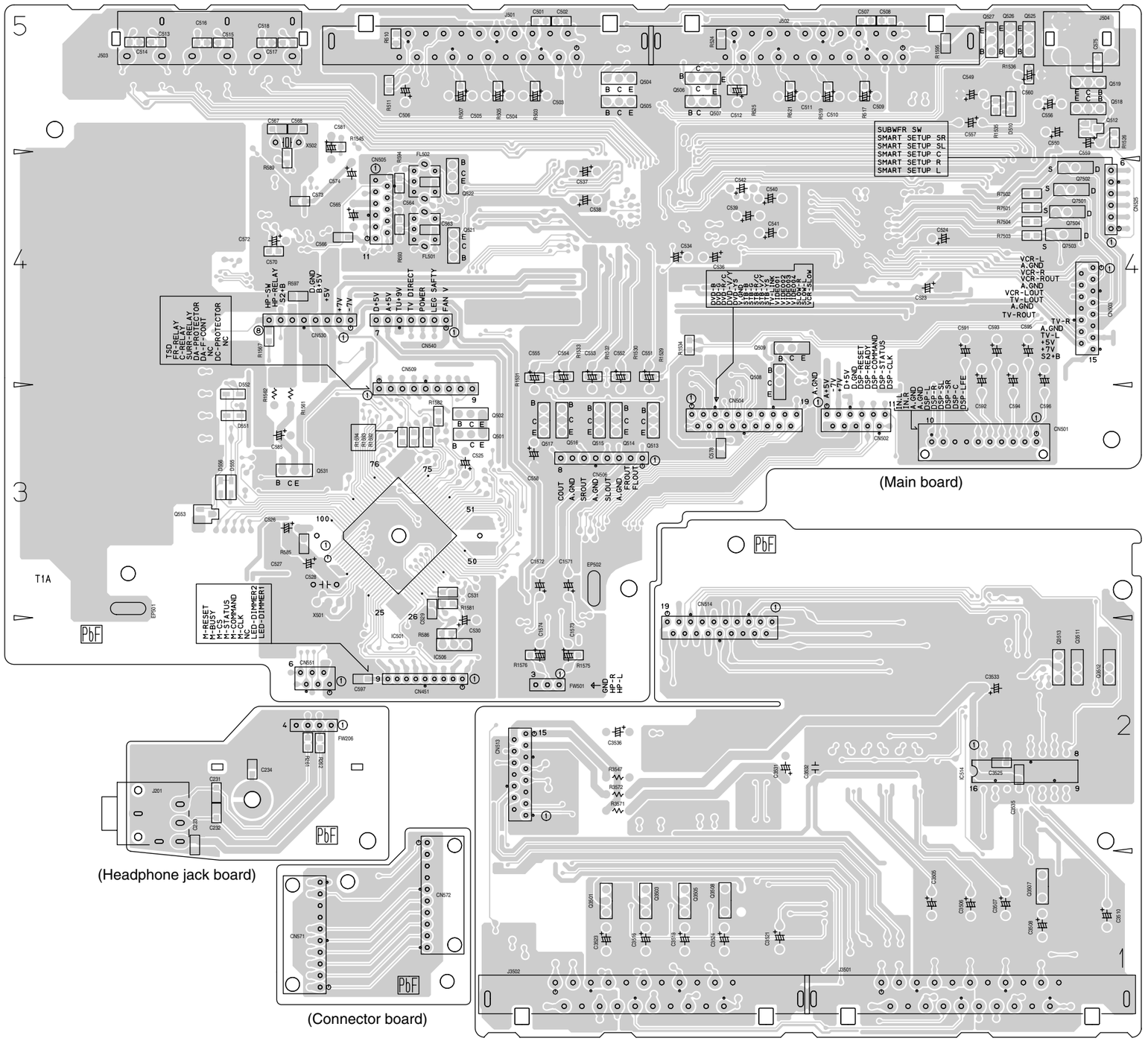
(Rectifier board)

■ Input board


Forward side
LVA10421-
A1
(Main board)
LVA10421-A2
(Digital output board)
LVA10421-A3
(Headphone jack board)
LVA10421-A4
(Connector board)
(to CN5211)
BOTTOM
(to CN501)
S1B

■ Input board

Reverse side



(Main board)

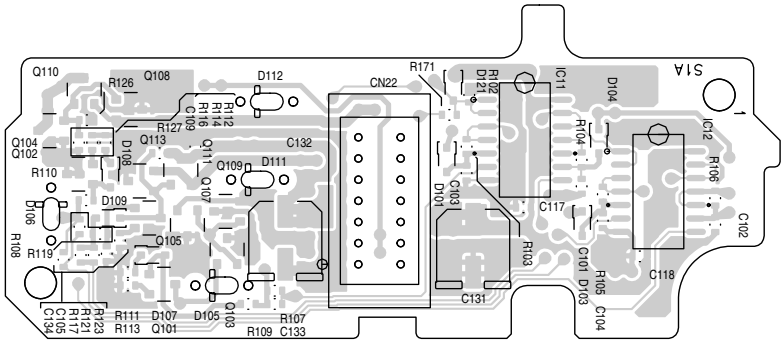
(Headphone jack board)

(Connector board)

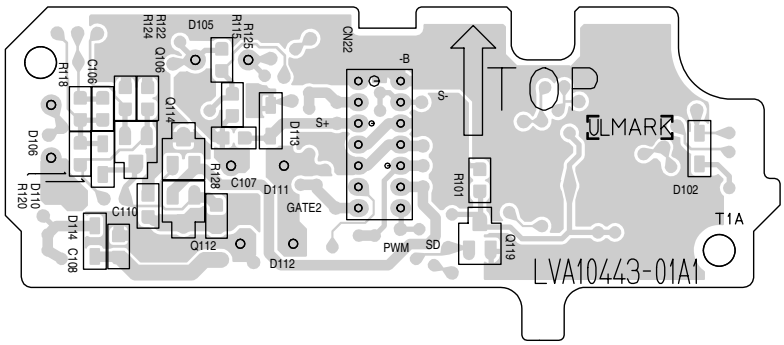
(Digital output board)

■ Power amp. driver board

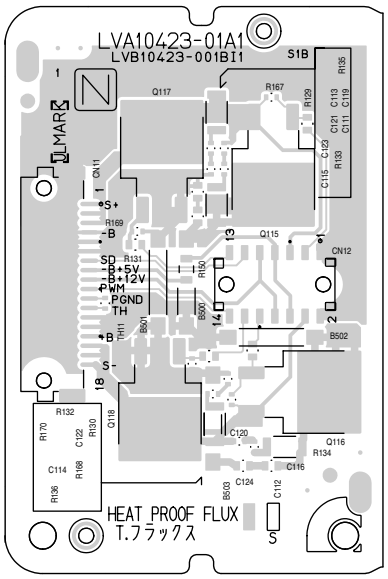
Forward side



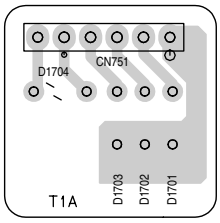
Reverse side



■ Power amp. board



■ Support board



< MEMO >